TORONTO FLYNN WATERPROOFING

Waterproofing Material Submittal

Northeastern University QSW

Flynn Waterproofing

Prepared for:

Mform Construction Group

Submitted To: Mform Construction Group

Submitted By: Parth Mehta

BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

Sikalastic®-320 NS

SINGLE-COMPONENT, NON-SAG, BITUMEN-MODIFIED POLYURETHANE WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

Sikalastic®-320 NS is a single-component, liquid-applied, non-sag, bitumen-modified, coal tar-free, moisture-cured polyurethane waterproofing membrane. Sikalastic®-320 NS is also available in self-levelling (SL) and sprayable (SG) grades. Refer to individual product data sheets for specific information

WHERE TO USE

- Foundation walls
- Plazas and pavers
- Between slabs
- Planters
- Bridges and tunnels

CHARACTERISTICS / ADVANTAGES

- Easy application
- Can be applied vertically and horizontally
- Applies on green and damp concrete
- Alkali resistant
- Quick re-coat time
- Ability to catalyze with water
- Faster cure rate
- Solvent-free
- Meets the requirements of ASTM C836

PRODUCT INFORMATION

Packaging	18.9 L (5 US gal.) pail - 208 L drum (55 US gal.), net fill 189 L (50 US gal.)	
Colour	Black	
Shelf Life	1 year in original, unopened packaging under proper storage conditions.	
Storage Conditions	Store dry (indoors) at temperatures between +15 °C and +35 °C (60 °F and 95 °F).	
Density	**Specific Gravity:** 1.19	
Solid content by weight	99 % ± 2	(ASTM D236)
Solid content by volume	95 % ± 2	(ASTM D2697)
Volatile organic compound (VOC) content	46 g/L	(ASTM D2369-81)
Viscosity	350 ± 100	(Poise at 27 °C (80 °F))

TECHNICAL INFORMATION

Shore D Hardness	80 ± 5	(ASTM D2240)
Tensile Strength	80 pli ± 15	(ASTM D412)
Elongation at Break	450 % ± 50	(ASTM D412)
Tear Strength	100 psi ± 15	(Die C, ASTM D624)
Water Vapour Transmission	1 ± .2	(ASTM E96-15) (Perms)
Chemical Resistance	Consult Sika Canada	
Service Temperature	-31.7 °C to +93.3 °C (25 °F to 200 °F)	

APPLICATION INFORMATION

Yield	1.26 m^2/L - 50 ft^2/US gal. at 30 ± mil d.f.t. 0.62 m^2/L - 25 ft^2/US gal. at 60 ± mil d.f.t. (standard) 0.44 m^2/L - 18 ft^2/US gal. at 90 ± mil d.f.t. 0.37 m^2/L - 15 ft^2/US gal. at 120 ± mil d.f.t.
Waiting Time / Overcoating	**Curing and Recoating** At 24 °C (75 °F) and 50 % relative humidity, allow each coat to cure 16 to 24 hours* minimum. When using water as a catalyst, allow Sikalastic®-320 NS to cure a minimum of 2 to 4 hours* before proceeding to subsequent coats. If more than 48 hours pass between coats, the surface must be wiped with a solvent and primed with Sikalastic® Recoat Primer. ** See Limitations* **Application on Green Concrete** **Horizontal:** 48 hours or walkable conditions **Vertical:** 24 hours after form removal

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.
Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

- Higher temperatures and/or high humidity will accelerate the cure time. In cold weather conditions, use pail warmers or preconditioning to assist in workability.
- Minimum application temperature: 4 °C (39 °F)
- Sikalastic®-320 NS should not be submerged or subject to ponding for more than 72 hours.
- Containers that have been opened must be used as soon as possible.
- Not recommended for Oriented Strand Board (OSB) or asphalt surfaces.
- Membrane should not be applied under thin set tile. Mortar beds applied above Sikalastic®-320 NS should be at least 50 mm (2 in) thick.
- Do not apply to porous or damp surfaces where moisture vapour transmission will occur during application and cure. Exposure to direct sunlight can exacerbate vapour transmission during cure.
- Apply Sikalastic®-320 NS in shaded areas and/or during falling temperatures or contact Sika Canada for use of a suitable primer in this situation.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces may be dry or damp, but must be sound and free of standing water, dust, laitance, grease, curing compounds, impregnations, waxes and any other

contaminants.

MIXING

Before application, Sikalastic®-320 NS should be thoroughly mixed at slow speed for 1 min 30 sec. (minimum) using a mechanical mixer fitted with a *Jiffy* style paddle to achieve an homogeneous consistency. Ensure not to allow entrapment of air into the material. Do not mix in an up and down motion, the paddle must remain constantly immersed in the product during mixing.
Using Optional Water Catalyst: Before application, mix Sikalastic®-320 NS at low speed using a mechanical mixer fitted with a *Jiffy* style mixing paddle. At a ratio 1 part of water to no less than 40 parts Sikalastic®-320 NS. For a 18.9 L (5 US gal.) pail, add 470 mL (16 US fl. oz) of water (less water may be used to extend working time). Avoid air entrapment into the mixture during mixing. Do not mix in an up and down motion, the paddle must remain constantly immersed in the product during mixing. Once water is mixed with Sikalastic®-320 NS apply within 20 minutes.

APPLICATION

Sikalastic®-320 NS may be applied with a brush, squeegee, trowel, or roller. Apply up to 90 mil vertically and 120 mil horizontally per coat. Mix Sikalastic®-320 NS with water to greatly reduce the chance of pinhole formation from concrete out-gassing and improve cure rate.
Flood Test: After Sikalastic®-320 NS has cured, plug drains and provide proper means to contain flood water. Flood deck with a 50 mm (2 in) head of water and allow to stand for 24 hours. Check for leaks and immediately make repairs if required. Retest after any repairs have been made. If a flood test cannot be completed in within three (3) days of application, cover Sikalastic®-320 NS with a protection course to prevent damage from other trade work until a successful flood test is completed.
Membrane Protection: As soon as possible after completion of a successful water test, visual inspection and/or repairs, cover all horizontal membranes with an approved drainage mat and optional protection board. Sikalastic®-320 NS should not be exposed to sunlight or UV radiation for more than 14 days. For all vertical membranes, cover immediately after cure with a protection course.
Joints, Cracks and Flashing: For all cracks up to 1.5 mm (1/16 in) in width, apply a 100 mm (4 in) wide, 30 mil thick stripe coat of Sikalastic®-320 NS centered over the crack. All cracks exceeding 1.5 mm (1/16 in) in width must be routed to at least 6 mm x 6 mm (¼ in x ¼ in), sealed with the appropriate Sikaflex® sealant and coated with a 10 mm (4 in) wide, 30 mil stripe coat centered on the sealant. Sika® Flexitape Heavy reinforcing fabric may be required for metal flashing transitions, plywood seams, and expansion joints by embedding reinforcing in 15 mil of membrane then coating with another 15 mil of membrane.
Reinforcement: Sika® Fleece-120 non-woven needle punched polyester fleece reinforcing fabric may be desired for some applications to enhance strength and durability of membrane. Embed Sika® Fleece-120 into a 60 mil coat of Sikalastic®-320 NS with a 13 mm (½ in) to 20 mm (¾ in) nap roller. Allow membrane to cure. Then apply another 60 mil coat of Sikalastic®-320 NS on top of the existing coat. Overlap Sika® Fleece-120 75 mm (3 in) along the sides and 150 mm (6 in) at the roll ends.

CLEAN UP

Equipment should be immediately cleaned with an environmentally safe solvent, as permitted under local regulations.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted

subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

Sika Canada Inc.
Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations
Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

Sikalastic®-320 NS

Revision Date 11/08/2024 Print Date 11/11/2024

SECTION 1. IDENTIFICATION

Product name	:	Sikalastic®-320 NS
Other means of identification	:	No data available
Company name	:	www.sika.ca Canada Pointe-Claire, QC H9R 4A9 601, avenue Delmar Sika Canada Inc.
Telephone	:	(514) 697-2610 / 1 (800) 933-7452
Telefax	:	(514) 694-2792
E-mail address	:	ehs@ca.sika.com
Emergency telephone	:	CANUTEC (collect) (613) 996-6666 (24 hours)
Recommended use of the chemical and restrictions on use	:	For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Eye irritation	:	Category 2A
Respiratory sensitization	:	Category 1
Skin sensitization	:	Sub-category 1A
Carcinogenicity (Inhalation)	:	Category 1A
Carcinogenicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Lungs)

GHS label elements

Hazard pictograms :

Sikalastic®-320 NS

Signal Word :

Danger

Hazard Statements :

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350 May cause cancer.
H350 May cause cancer by inhalation.
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 In case of inadequate ventilation wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	68477-30-5	Carc. 1B; H350	>= 10 - < 30
distillates (petroleum),heavy thermal cracked	64741-81-7	Carc. 1B; H350	>= 10 - < 30
Quartz (SiO2) >5µm	14808-60-7	Carc. 1A; H350 STOT RE 1; H372 STOT SE 3; H335	>= 1 - < 5
Isophorondiamine-Isobutyraldimine	54914-37-3	Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317	>= 0.1 - < 1
2-methyl-m-phenylene diisocyanate	91-08-7	Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335	>= 0.1 - < 1
4-methyl-m-phenylene diisocyanate	584-84-9	Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335	>= 0.1 - < 1

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	:	irritant effects sensitizing effects carcinogenic effects Asthmatic appearance Allergic reactions Excessive lachrymation May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Deny access to unprotected persons.

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Avoid formation of aerosol. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.
Conditions for safe storage	:	Prevent unauthorized access. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO2) >5µm	14808-60-7	TWA (Respirable particulates)	0.025 mg/m3	CA AB OEL
		TWA (Res-	0.1 mg/m3	CA ON OEL

		pirable fraction)		
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWAEV (respirable dust)	0.05 mg/m3	CA QC OEL
		TWA (Respirable)	0.025 mg/m3	CA BC OEL
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
2-methyl-m-phenylene diisocyanate	91-08-7	TWA	0.005 ppm	CA BC OEL
		C	0.01 ppm	CA BC OEL
		TWA	0.005 ppm 0.04 mg/m3	CA AB OEL
		(c)	0.02 ppm 0.1 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA ON OEL
		C	0.02 ppm	CA ON OEL
		TWA (Inhalable fraction and vapor)	0.001 ppm	ACGIH
		STEL (Inhalable fraction and vapor)	0.005 ppm	ACGIH
4-methyl-m-phenylene diisocyanate	584-84-9	TWA	0.005 ppm	CA BC OEL
		C	0.01 ppm	CA BC OEL
		TWA	0.005 ppm 0.04 mg/m3	CA AB OEL
		(c)	0.02 ppm 0.1 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA ON OEL

		C	0.02 ppm	CA ON OEL
		TWA (Inhalable fraction and vapor)	0.001 ppm	ACGIH
		STEL (Inhalable fraction and vapor)	0.005 ppm	ACGIH

Engineering measures : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.
Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Color	:	black
Odor	:	mild, aromatic
Odor Threshold	:	No data available
pH	:	Not applicable
Melting point/ range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	204.44 °C (399.99 °F) (Method: closed cup)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	0.01 hpa
Relative vapor density	:	No data available
Density	:	1.19 g/cm3
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	> 20.5 mm2/s

Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	46.5 g/l

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

Isophorondiamine-Isobutyraldimine:

Acute oral toxicity	:	LD50 Oral (Rat): 4,150 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rat): > 5,000 mg/kg

2-methyl-m-phenylene diisocyanate:

Acute inhalation toxicity	:	LC50 (Rat): 0.107 mg/l Exposure time: 4 h Test atmosphere: vapor

4-methyl-m-phenylene diisocyanate:

Acute oral toxicity	:	LD50 Oral (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.107 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	:	LD50 Dermal (Rat): > 9,400 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result : Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer.
May cause cancer by inhalation.

IARC	Group 1: Carcinogenic to humans Quartz (SiO2) >5µm (Silica dust, crystalline)	 14808-60-7
	Group 2B: Possibly carcinogenic to humans Carbon black, amorphous	 1333-86-4
	Group 2B: Possibly carcinogenic to humans 2-methyl-m-phenylene diisocyanate (toluene diisocyanates)	 91-08-7
	Group 2B: Possibly carcinogenic to humans 4-methyl-m-phenylene diisocyanate (toluene diisocyanates)	 584-84-9
OSHA	OSHA specifically regulated carcinogen Quartz (SiO2) >5µm (crystalline silica)	 14808-60-7
NTP	Reasonably anticipated to be a human carcinogen 2-methyl-m-phenylene diisocyanate	 91-08-7
	Reasonably anticipated to be a human carcinogen 4-methyl-m-phenylene diisocyanate	 584-84-9
	Known to be human carcinogen Quartz (SiO2) >5µm (Silica, Crystalline (Respirable Size))	 14808-60-7

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure.
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

distillates (petroleum),heavy thermal cracked:

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Do not empty into drains; dispose of this material and its container in a safe way.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental

protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

TDG
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

Canadian lists
No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / (c)	:	ceiling occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / C	:	ceiling limit
CA ON OEL / C	:	Ceiling Limit (C)
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)

CA QC OEL / TWAEV	:	Time-weighted average exposure value
ADR	:	Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

Notice to Reader:

The information contained in this Material Safety Data Sheet applies only to the actual Sika Canada product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed.

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All sales of Sika products are subject to its current terms and conditions of sale available at www.sika.ca or 514-697-2610.

Sikalastic®-320 NS

Revision Date	:	11/08/2024
Date format	:	mm/dd/yyyy
Prepared by	:	R & D of Sika Canada Inc.
Material number	:	509,558

CA / Z8

Letter of Compatibility from Sika enclosed in the end of this PDF.

TECHNICAL DATA SHEET

Pumadeq™ N-Fleece

100% Polyester, non-woven, needle punch reinforcement

Physical Property	Typical Value	Test Method
Thickness	60 mil	-
Weight	115g	
Elongation	>35%	
Tensile Strength	70lbs	
Tear Resistance	665lbs	
Water Absorption	<1%	

Description

Henry® Pumadeq™ N-Fleece is a white, 100% Polyester, non-woven, needle punch constructed fabric. It combines high tensile and tear strength with puncture resistance. **Pumadeq N-Fleece** is designed to handle and apply easily, over uneven surfaces.

Usage

Pumadeq N-Fleece is is used as fabric reinforcement for Pumadeq applications.
Pumadeq N-Fleece provides a tear resistant, durable flashing reinforcement for waterproofing systems.
Pumadeq N-Fleece ensures a constant waterproofing membrane thickness is provided, even over irregularities.

Application

Pumadeq N-Fleece should be applied as per the approved Pumadeq specification.
On vertical surfaces, back coat **Pumadeq N-Fleece** before applying to resin coated substrate, to prevent bubbles behind fleece.
Check for voids at edges of **Pumadeq N-Fleece** and fill with Pumadeq.
Ensure there are no frayed edges, and maintain all minimum, 3” overlaps.
Do not use wet fleece. Do not attempt to dry fleece.

Coverage

Pumadeq N-Fleece width	Pumadeq N-Fleece. length	Approximate SF coverage, not including overlaps
4”	164’	54 sq/ft
13.8”	164’	188 sq/ft
41.3”	164’	564 sq.ft

Allow for a minimum of 3” overlap at all **Pumadeq N-Fleece** edges and penetrations.
Pumadeq N-Fleece overlaps and waste will reduce coverages listed above. Add minimum 5% consumption on sf area required.

Clean-up

Read and follow all Health and Safety instructions on SDS.
Dispose of all packaging in accordance with federal, state and local regulations.

Shelf Life/ Storage

Ensure all rolls of **Pumadeq N-Fleece** are kept dry and free of contaminants. Keep in a flat position and do not over stack.
Do not allow roll to wrinkle or deform, especially ends.

Henry® Company, 999 N. Pacific Coast Highway Ste. 800 El Segundo, CA 90245
Tel: 800-486-1278 **Email:** techservices@henry.com
www.henry.com

Revision Date: 12/10/2018

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

Henry is a registered trademark of Henry Company

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry® Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.

SAFETY DATA SHEET

Issue Date 17-Dec-2016 **Revision Date** 23-Jan-2018 **Version** 1

1. IDENTIFICATION

Product identifier
Product Name AQUA-BLOC PUMA FLEECE

Other means of identification
Product Code HEPU864
Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Waterproofing Sealers
Uses advised against No information available

Details of the supplier of the safety data sheet
Manufacturer Address
HENRY COMPANY
999 N. Sepulveda Blvd., Suite 800
El Segundo, CA 90245-2716
Web Site: www.henry.com www.ca.henry.com

Emergency telephone number
Company Phone Number 800-486-1278
Emergency Telephone US and Canada only (toll-free) : 3E Company - 1-866-519-4752 (access code 334832)
US/Canada, all other countries: 3E Company - +1-760-476-3962 (access code 334832)
Mexico (additional contact option): 3E Company - +52 55 41696225 (Code 334832)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

Not classified

Hazard statements
None

Appearance Solid sheet fibers **Physical state** Solid **Odor** Slight

Precautionary Statements - Prevention
Not applicable

Precautionary Statements - Response
Not applicable

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
Not applicable.

Unknown acute toxicity
0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Not applicable

Mixture
This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

Chemical Name	CAS No	Weight-%
Polyester fabric *	25038-59-9	60 - 100

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. Wash contaminated clothing before reuse.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Rinse mouth. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

Environmental precautions

Environmental precautions Collect spillage. Dispose of contents/container to an approved waste disposal plant.

Methods and material for containment and cleaning up

Methods for containment No information available.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid		
Appearance	Solid sheet fibers	**Odor**	Slight
Color	white	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	Not applicable	
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	Not applicable
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	0	
Vapor density	No information available	
Relative density	>1	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	>260 °C / >500 °F	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	Not applicable
Dynamic viscosity	No information available	Not applicable
Explosive properties	Not an explosive	
Oxidizing properties	Not applicable	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Conditions to avoid
Storage near to reactive materials. elevated temperature.
Incompatible materials
Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	Based on available data, the classification criteria are not met.
Ingestion	Based on available data, the classification criteria are not met.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity
None known

100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	**Health hazards** 0	**Flammability** 1	**Instability** 0	**Physical and Chemical Properties** -
HMIS	**Health hazards** 0	**Flammability** 1	**Physical hazards** 0	**Personal protection** X

Issue Date 17-Dec-2016
Revision Date 23-Jan-2018
Revision Note
No information available
Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

HI-CORE®

Fluted Polypropylene Sheets

MATRA PLAST

Letter of Compatibility from Sika enclosed in the end of this PDF.

Hi-Core® fluted polypropylene sheets are Matra Plast's premium products. Over the last 30 years our reputation for quality continues to build on 3 standards: Smoothness, Flatness and Squareness.

Hi-Core® sheets are the obvious choice for exceptional results. Their fluted profile gives Hi-Core® compressive strength and rigidity, necessary for a variety of applications:

- Large Format Printing
- OEM requiring precise extruded profile
- Packaging / Converting

Applications:

Advertising and Media / POP Display / Real Estate Signs / Architectural Panels / Boxes

Top Five Reasons For Choosing Hi-Core®

01 **SQUARED SHEET**
Printing on both sides

02 **SMOOTHNESS**
Offers maximum ink coverage

03 **FLATNESS**
Excellent surface finish

04 **CORONA TREATMENT**
Highest dyne level on both sides

05 **CONSISTENCY**
For optimal registration

1 800 661-7662 ◦ info@matraplast.com

matraplast.com

HI-CORE®

Fluted Polypropylene Sheets

MATRA PLAST

FLUTE DESIGN

Regular Flute (RF)

55 flutes per linear foot
Excellent size for stake application

Narrow Flute

82 flutes per linear foot
Excellent, economical sheet for non-stake application

SHEET PARAMETERS

Narrow flute gauges (NF)	2.5 mm, 3 mm, 4 mm*
Regular flute gauges (RF)	2.5 mm, 3 mm, 4 mm*, 5 mm, 6 mm
Heavy gauges (HG)	8 mm, 10 mm, 12.2 mm
Maximum width (trimmed)	80"
Maximum length	240"

* Most common

CUSTOM SIZES

Minimum requirements per color

12,000 square feet per gauge /
5,000 square feet per size 2.5 mm - 6 mm

6,000 square feet per gauge /
2,500 square feet per size 8 mm and 10 mm

APPLICATIONS

- **Advertising and Media**
- **POP Display**
- **Real Estate Signs**
- **Architectural Panels**
- **Boxes**
- **Custom Made**

COLORS

Hi-Core® has a host of colors to choose from. Customized colors are available subject to minimum order volumes.

White

Natural 1 · Black 80 · Silver 90 · Gray 95 · Green 70

Brown 50 · Blue 60 · Blue 62 · Blue 63 · Blue 64

Red 30 · Orange 40 · Yellow 20 · Yellow 23 · Ivory 15

BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

Sikalastic®-320 SL

SINGLE-COMPONENT, SELF-LEVELLING, BITUMEN-MODIFIED POLYURETHANE WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

Sikalastic®-320 SL is a single-component, liquid-applied, self-levelling, bitumen-modified, coal tar-free, moisture-cured polyurethane waterproofing membrane. Sikalastic®-320 SL is also available in non-sag (NS) grade for vertical applications and sprayable grade (SG). Refer to individual product data sheets for specific information.

WHERE TO USE

- Foundation walls
- Plazas and pavers
- Between slabs
- Planters
- Bridges and tunnels

CHARACTERISTICS / ADVANTAGES

- Designed for horizontal applications
- Easy application
- Applies on green and damp concrete
- Alkali resistant
- Quick re-coat time
- Ability to catalyze with water
- Faster cure rate
- Solvent-free
- Meets the requirements of ASTM C836

PRODUCT INFORMATION

Packaging	18.9 L (5 US gal.) pail - 208 L drum (55 US gal.), net fill 189 L (50 US gal.)	
Colour	Black	
Shelf Life	12 months in original, unopened packaging under proper storage conditions.	
Storage Conditions	Store dry (indoors) at temperatures between +15 °C and +35 °C (60 °F and 95 °F).	
Density	1.19	
Solid content by weight	99 % ± 2	(ASTM D236)
Solid content by volume	95 % ± 2	(ASTM D2697)
Volatile organic compound (VOC) content	45 g/L	(ASTM D2369-81)

Viscosity	30 ± 10	(Poise at 27 °C (80 °F))

TECHNICAL INFORMATION

Shore D Hardness	80 ± 5	(ASTM D2240)
Tensile Strength	70 pli ± 15	(ASTM D412)
Elongation at Break	500 % ± 50	(ASTM D412)
Tear Strength	80 psi ± 15	(ASTM D624) Die C
Water Vapour Transmission	1 ± .2	(ASTM E96-15)
Service Temperature	-31.7 °C to +93.3 °C (25 °F to 200 °F)	

APPLICATION INFORMATION

Yield	1.26 m^2/L - 50 ft^2/US gal. at 30 ± mil d.f.t. 0.62 m^2/L - 25 ft^2/US gal. at 60 ± mil d.f.t. (standard) 0.44 m^2/L - 18 ft^2/US gal. at 90 ± mil d.f.t. 0.37 m^2/L - 15 ft^2/US gal. at 120 ± mil d.f.t.
Waiting Time / Overcoating	Application on Green Concrete **Horizontal:** 48 hours or walkable conditions **Vertical:** 24 hours after form removal **Curing and Recoating:** At 24 °C (75 °F) and 50 % relative humidity, allow each coat to cure 16 to 24 hours* minimum. When using water as a catalyst, allow Sikalastic®-320 SL to cure a minimum of 2 to 4 hours* before proceeding to subsequent coats. If more than 48 hours pass between coats, the surface must be wiped with a solvent and primed with Sikalastic® Recoat Primer. * See Limitations

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods. Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

- Higher temperatures and/or high humidity will accelerate the cure time. In cold weather conditions, use pail warmers or preconditioning to assist in workability.
- Minimum application temperature: 4 °C (39 °F)
- Sikalastic®-320 SL should not be submerged or subject to ponding for more than 72 hours.
- Containers that have been opened must be used as soon as possible.
- Not recommended for Oriented Strand Board (OSB) or asphalt surfaces.
- Membrane should not be applied under thin set tile. Mortar beds applied above Sikalastic®-320 SL should be at least 50 mm (2 in) thick.
- Do not apply to porous or damp surfaces where moisture vapour transmission will occur during application and cure.
- Exposure to direct sunlight can exacerbate vapour transmission during cure.
- Apply Sikalastic®-320 SL in shaded areas and/or during falling temperatures or contact Sika Canada for use of a suitable primer in this situation.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces may be dry or damp, but must be sound and free of standing water, dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants.

MIXING

Before application, Sikalastic®-320 SL should be thoroughly mixed at slow speed for 1 min 30 sec. (minimum) using a mechanical mixer fitted with a *Jiffy* style paddle to achieve an homogeneous consistency. Ensure not to allow entrapment of air into the material. Do not mix in an up and down motion, the paddle must remain constantly immersed in the product during mixing.
Using Optional Water Catalyst: Before application, mix Sikalastic®-320 SL at low speed using a mechanical mixer fitted with a *Jiffy* style mixing paddle. At a ratio 1 part of water to no less than 40 parts Sikalastic®-320 SL. For a 18.9 L (5 US gal.) pail, add 470 mL (16 US fl. oz) of water (less water may be used to extend working time). Avoid air entrapment into the mixture during mixing. Do not mix in an up and down motion, the paddle must remain constantly immersed in the product during mixing. Once water is mixed with Sikalastic®-320 SL apply within 20 minutes.

APPLICATION

Sikalastic®-320 SL may be applied with a brush, squeegee, trowel, or roller. Apply up to 90 mil vertically and 120 mil horizontally per coat. Mix Sikalastic®-320 SL with water to greatly reduce the chance of pinhole formation from concrete out-gassing and improve cure rate.
Flood Test: After Sikalastic®-320 SL has cured, plug drains and provide proper means to contain flood water. Flood deck with a 50 mm (2 in) head of water and allow to stand for 24 hours. Check for leaks and immediately make repairs if required. Retest after any repairs have been made. If a flood test cannot be completed in within three (3) days of application, cover Sikalastic®-320 SL with a protection course to prevent damage from other trade work until a successful flood test is completed.

Membrane Protection: As soon as possible after completion of a successful water test, visual inspection and/or repairs, cover all horizontal membranes with an approved drainage mat and optional protection board. Sikalastic®-320 SL should not be exposed to sunlight or UV radiation for more than 14 days. For all vertical membranes, cover immediately after cure with a protection course.

Joints, Cracks and Flashing: For all cracks up to 1.5 mm (1/16 in) in width, apply a 100 mm (4 in) wide, 30 mil thick stripe coat of Sikalastic®-320 SL centered over the crack. All cracks exceeding 1.5 mm (1/16 in) in width must be routed to at least 6 mm x 6 mm (¼ in x ¼ in), sealed with the appropriate Sikaflex® sealant and coated with a 10 mm (4 in) wide, 30 mil stripe coat centered on the sealant. Sika® Flexitape Heavy reinforcing fabric may be required for metal flashing transitions, plywood seams, and expansion joints by embedding reinforcing in 15 mil of membrane then coating with another 15 mil of membrane.

Reinforcement: Sika® Fleece-120 non-woven needle punched polyester fleece reinforcing fabric may be desired for some applications to enhance strength and durability of membrane. Embed Sika® Fleece-120 into a 60 mil coat of Sikalastic®-320 SL with a 13 mm (½ in) to 20 mm (¾ in) nap roller. Allow membrane to cure. Then apply another 60 mil coat of Sikalastic®-320 SL on top of the existing coat. Overlap Sika® Fleece-120 75 mm (3 in) along the sides and 150 mm (6 in) at the roll ends.

CLEAN UP

Equipment should be immediately cleaned with an environmentally safe solvent, as permitted under local regulations.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended

application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

Sika Canada Inc.
Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations
Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

Sikalastic®-320 SL

Revision Date 09/05/2023 Print Date 10/12/2024

SECTION 1. IDENTIFICATION

Product name	:	Sikalastic®-320 SL
Other means of identification	:	No data available
Company name	:	www.sika.ca Canada Pointe-Claire, QC H9R 4A9 601, avenue Delmar Sika Canada Inc.
Telephone	:	(514) 697-2610 / 1 (800) 933-7452
Telefax	:	(514) 694-2792
E-mail address	:	ehs@ca.sika.com
Emergency telephone	:	CANUTEC (collect) (613) 996-6666 (24 hours)
Recommended use of the chemical and restrictions on use	:	For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Respiratory sensitization	:	Category 1
Skin sensitization	:	Sub-category 1A
Carcinogenicity (Inhalation)	:	Category 1A
Carcinogenicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Lungs)

GHS label elements

Hazard pictograms :

Signal Word	:	Danger
Hazard Statements	:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.
H350 May cause cancer.
H350 May cause cancer by inhalation.
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 In case of inadequate ventilation wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	68477-30-5	Carc. 1B; H350	>= 10 - < 30
distillates (petroleum),heavy thermal cracked	64741-81-7	Carc. 1B; H350	>= 10 - < 30
Quartz (SiO2) >5µm	14808-60-7	Carc. 1A; H350 STOT RE 1; H372 STOT SE 3; H335	>= 1 - < 5
Isophorondiamine-Isobutyraldimine	54914-37-3	Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317	>= 0.1 - < 1
2-methyl-m-phenylene diisocyanate	91-08-7	Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335	>= 0.1 - < 1
2-methyl-m-phenylene diisocyanate	584-84-9	Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335	>= 0.1 - < 1

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not induce vomiting without medical advice.
Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.
Obtain medical attention.

Most important symptoms and effects, both acute and delayed	:	sensitizing effects carcinogenic effects Asthmatic appearance Allergic reactions May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Deny access to unprotected persons.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	Normal measures for preventive fire protection.

fire and explosion

Advice on safe handling : Avoid formation of aerosol.
Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products.

Conditions for safe storage : Prevent unauthorized access.
Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO2) >5µm	14808-60-7	TWA (Respirable particulates)	0.025 mg/m3	CA AB OEL
		TWA (Respirable fraction)	0.1 mg/m3	CA ON OEL
		TWAEV (respirable dust)	0.1 mg/m3	CA QC OEL
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWA (Respirable)	0.025 mg/m3	CA BC OEL
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH

		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
2-methyl-m-phenylene diisocyanate	91-08-7	TWA	0.005 ppm	CA BC OEL
		C	0.01 ppm	CA BC OEL
		TWA	0.005 ppm 0.04 mg/m3	CA AB OEL
		(c)	0.02 ppm 0.1 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA ON OEL
		C	0.02 ppm	CA ON OEL
		TWA (Inhalable fraction and vapor)	0.001 ppm	ACGIH
		STEL (Inhalable fraction and vapor)	0.005 ppm	ACGIH
2-methyl-m-phenylene diisocyanate	584-84-9	TWA	0.005 ppm	CA BC OEL
		C	0.01 ppm	CA BC OEL
		TWA	0.005 ppm 0.04 mg/m3	CA AB OEL
		(c)	0.02 ppm 0.1 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA ON OEL
		C	0.02 ppm	CA ON OEL
		TWA (Inhalable fraction and vapor)	0.001 ppm	ACGIH
		STEL (Inhalable fraction and vapor)	0.005 ppm	ACGIH

Engineering measures : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection	:	Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Color	:	black
Odor	:	mild, aromatic
Odor Threshold	:	No data available
pH	:	Not applicable
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	264.45 °C (508.01 °F)

Flash point	:	204 °C (400 °F)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	0.01 hpa
Relative vapor density	:	Heavier than air.
Density	:	1.19 g/cm3
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	> 20.5 mm2/s (40 °C (104 °F))
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	49 g/l

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.

Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

Isophorondiamine-Isobutyraldimine:

Acute oral toxicity	:	LD50 Oral (Rat): 4,150 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rat): > 5,000 mg/kg

2-methyl-m-phenylene diisocyanate:

Acute inhalation toxicity	:	LC50 (Rat): 0.107 mg/l Exposure time: 4 h Test atmosphere: vapor

2-methyl-m-phenylene diisocyanate:

Acute oral toxicity	:	LD50 Oral (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.107 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	:	LD50 Dermal (Rat): > 9,400 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer.
May cause cancer by inhalation.

IARC	Group 1: Carcinogenic to humans	
	Quartz (SiO2) >5µm (Silica dust, crystalline)	14808-60-7
	Group 2B: Possibly carcinogenic to humans	
	Carbon black, amorphous	1333-86-4
	Group 2B: Possibly carcinogenic to humans	
	2-methyl-m-phenylene diisocyanate (toluene diisocyanates)	91-08-7
	Group 2B: Possibly carcinogenic to humans	
	2-methyl-m-phenylene diisocyanate (toluene diisocyanates)	584-84-9
OSHA	OSHA specifically regulated carcinogen	
	Quartz (SiO2) >5µm (crystalline silica)	14808-60-7
NTP	Reasonably anticipated to be a human carcinogen	
	2-methyl-m-phenylene diisocyanate	91-08-7
	Reasonably anticipated to be a human carcinogen	
	2-methyl-m-phenylene diisocyanate	584-84-9
	Known to be human carcinogen	
	Quartz (SiO2) >5µm (Silica, Crystalline (Respirable Size))	14808-60-7

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure.
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

distillates (petroleum),heavy thermal cracked:

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects

Product:

Additional ecological information	:	Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

TDG
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / (c)	:	ceiling occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / C	:	ceiling limit
CA ON OEL / C	:	Ceiling Limit (C)
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV	:	Time-weighted average exposure value

ADR	:	Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit

PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

Notice to Reader:

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Revision Date	:	09/05/2023
Date format	:	mm/dd/yyyy
Prepared by	:	R & D of Sika Canada Inc.
Material number	:	510,232

CA / Z8

TECHNICAL DATA SHEET

Henry® 925 BES Sealant

Building Envelope Systems® Sealant

Physical Property	Typical Value	Test Method
Color	Black, Gray, White	-
Application Temperature (see Limitations)	10 ºF to 110 ºF (-12 ºC to 43 ºC)	-
Service Temperature, cured	-40 ºF to 180 ºF (-40 ºC to 82 ºC)	-
Durometer Hardness	25 ±5 Shore A	ASTM D2240
Density	13 lbs/gal	-
Elongation, max	450-550%	ASTM D412
Dry Time	Initial Set: 60-90 min at 77 ºF (25 ºC) 50%RH. Set Through: 24 hours	-
Modulus	40-50% psi	-
Tensile Strength	150-200 psi	ASTM D412
VOC Content, max	5 g/L	EPA Method 24

Approvals and Certifications

- Meets ASTM C719 ± 35%
- Meets Fed Spec TT-S-00230C, Type II, Class A
- Meets ASTM C920 Type S, Grade NS, Use NT, Class 35
- LEED v4 MR Credit Building Product Disclosure & Optimization: Health Product Declaration "HPD"

Description

Henry® 925 BES Sealant is a premium, silyl-terminated polyether (STPE) polymer-based sealant which provides excellent weathering resistance, flexibility, low odor and very low VOC. This one-part sealant is applied from cartridges or sausages using professional-grade caulk guns. Applied as a paste-like, non-sag compound, it cures with ambient moisture to an elastic, rubber-like state and is paintable once cured. **Henry® 925 BES Sealant** is compatible for use in many Henry® air barrier, flashing, roofing, and waterproofing systems.

Features and Benefits

- Vetted component of Henry®-warranted systems
- Excellent adhesion to many surfaces
- Will not freeze or wash off in rain
- No shrinkage, stays elastic and flexible
- Low odor, low VOC
- Paintable after cure

Usage

Henry® 925 BES Sealant is suitable for diverse applications but is intended primarily for use as a component in Henry® air barrier, flashing, waterproofing, and roofing systems. The product is used to detail terminations, penetrations, transitions, and joints as shown in Henry® system architectural details. **Henry® 925 BES Sealant** can also be used as an alternative to other elastomeric sealants (silicone, urethane, etc.) in above-grade construction applications, and is optimal for construction joints up to 1" (25mm) width that are subject to dynamic joint movement of up to ± 35%. **Henry® 925 BES Sealant** bonds well to many Henry® membranes as well as common construction materials including concrete, masonry, wood and metal.

Application

Surface Prep: Surfaces must be sound, smooth, uniform, and free from defects and foreign materials. **Henry® 925 BES Sealant** can be applied over damp surfaces, but no surface water or frost. Surfaces must also be clean and free of contaminants, such as

curing compounds, sealers, or coatings. Sealant adhesion should be tested on each different substrate prior to use by applying a bead allowing to cure thoroughly. To test adhesive strength, pull one end of the bead.

Apply: Cut nozzle to desired bead size; puncture inner seal. Apply at a 45° angle while pushing sealant ahead of nozzle. Tool the sealant before it skins to provide contact with substrate to remove voids and to shape it for water shedding. For movement joint applications: The width of the joint should be a minimum of ¼" (6mm) and shall be 4 times the anticipated movement. In joints ¼" (6 mm) or wider, insert backer rod into joint before sealant installation to control sealant depth and to prevent adhesion to bottom of joint. If the joint is up to ½" (13 mm) wide, the depth of the sealant should be equal to the width, but not less than ¼" (6 mm). In joints wider than ½" (13 mm), the depth should be maintained at ½" (13 mm). Maximum joint width for installation is 1" (25 mm).

Sealant Consumption Guide

Bead Size	Yield* per 20 FL-OZ (591 mL) Sausage	Yield* Per 10.3 FL-OZ (305 ML) Cartridge
1/8" (3mm)	245 ft (74.8 m)	123 ft (37.4 m)
1/4" (6mm)	61 ft (18.7 m)	31 ft (9.3 m)
3/8" (10mm)	27 ft (8.3 m)	14 ft (4.2 m)
1/2" (13mm)	15 ft (4.7 m)	8 ft (2.4 m)
5/8" (16mm)	10 ft (3.0 m)	5 ft (1.5 m)
3/4" (19mm)	7 ft (2.1 m)	---
7/8" (22mm)	5 ft (1.5 m)	---
1" (25mm)	4 ft (1.2 m)	---

*Theoretical yield. Not accounting for waste.

Limitations:

Use as shown in **Henry®** system instructions and details. Verify compatibility of all materials that will be in contact with **Henry® 925 BES Sealant** before installation.

Henry® 925 BES Sealant may be installed when substrate and air temperatures are as low as 10°F (-12ºC). Application in temperatures between 10°F and 32°F (-12ºC and 0ºC) may proceed only if the substrate is free of frost or ice. The product should not be applied in the rain or on wet surfaces; damp surfaces are acceptable.

If frost or ice is present on the substrate, it must be warmed to a temperature above 32°F (0ºC) using hot air gun, heater, etc. to melt the frozen moisture. When installed in temperatures below 32°F (0ºC), an extended curing time is expected.

Prior to cold weather installation, **Henry® 925 BES Sealant** should be stored at room temperatures above 35°F (2ºC) for a minimum of 24 hours, to improve application and tooling.

Although **Henry® 925 BES Sealant** is suitable for permanently exposed applications, Henry does not guarantee aesthetics or service life in these applications. Exposed caulking/sealant is considered a maintenance item, requiring periodic cleaning, repair and replacement.

Clean-up

Clean hands and equipment with product and technique suitable for removing oil-based materials.

Product size/packaging

10.3 fl-oz (305 mL) cartridge, 24 per box
20 fl-oz (591 mL) sausage, 12 per box
2-gallon (7.6 L) bucket

Storage

Henry® 925 BES Sealant has a shelf life of 12 months from date of manufacture when stored in original unopened container at or below 80°F (27°C). Containers should always be kept sealed when not in use.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on the Henry® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

Henry® - A Carlisle Company, 336 Coldstream Road Kimberton, PA 19446
Tel: 800-486-1278 **Email:** techservices@henry.com
www.henry.com

Revision Date: 5/22/2023

SAFETY DATA SHEET

Issue Date 22-Dec-2015 **Revision Date** 09-Jan-2023 **Version** 3

1. IDENTIFICATION

Product identifier
Product Name BES SEALANT- WHITE

Other means of identification
Product Code HE925W
Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Adhesives and/or sealants
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address
HENRY COMPANY CANADA
15 Wallsend Dr.
Scarborough, ON M1E 3X6
Canada
Web Site: www.henry.com, www.ca.henry.com

Manufacturer Address
HENRY COMPANY LLC
336 Cold Stream Road
Kimberton, PA 19442
Web Site: www.henry.com, www.ca.henry.com

Emergency telephone number
Company Phone Number 800-486-1278
Emergency Telephone US and Canada only (toll-free) : 3E Company - 1-866-519-4752 (access code 334832)
US/Canada, all other countries: 3E Company - +1-760-476-3962 (access code 334832)
Mexico (additional contact option): 3E Company - +52 55 41696225 (Code 334832)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canadian Workplace Hazardous Material Information System (WHMIS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Emergency Overview

Danger

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May damage fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure

Appearance viscous **Physical state** liquid **Odor** Slight

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
Harmful to aquatic life with long lasting effects.

Unknown acute toxicity
0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Not applicable

Mixture

Chemical Name	CAS No	Weight-%
Limestone *	1317-65-3	30 - 60
Silyl-terminated Polyether *	Proprietary	10 - 30
Polyether diol *	Proprietary	7 - 13
Calcium carbonate *	471-34-1	3 - 7
Titanium dioxide *	13463-67-7	1 - 5
N-[3-(Trimethyoxysilyl)propyl]-1,2-ethanediamine *	1760-24-3	0.1 - 1
Silane, ethenyltrimethoxy- *	2768-02-7	0.1 - 1
Tin, dibutylbis(2,4-pentanedionato-O,O)-, (OC-6-11)- *	22673-19-4	0.1 - 1

*The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. Wash contaminated clothing before reuse.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Rinse mouth. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. May cause skin irritation. May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL/IDLH
Limestone 1317-65-3	-	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Calcium carbonate 471-34-1	-	-	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m³ TWA: 2.4 mg/m³ CIB 63 fine TWA: 0.3 mg/m³ CIB 63 ultrafine, including engineered nanoscale
Tin, dibutylbis(2,4-pentanedionato-O,O)-, (OC-6-11)- 22673-19-4	STEL: 0.2 mg/m³ Sn TWA: 0.1 mg/m³ Sn S*	TWA: 0.1 mg/m³ Sn	IDLH: 25 mg/m³ Sn TWA: 0.1 mg/m³ except Cyhexatin Sn

NIOSH REL/IDLH Recommended Exposure Limit/Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid		
Appearance	viscous	**Odor**	Slight
Color	white	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	6-10	
Melting point / freezing point	No information available	
Boiling point / boiling range	> 100 °C / 212 °F	
Flash point	> 100 °C / 212 °F	Tag Closed Cup
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	1.5 - 1.7 g/mL	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	> 400,000 mm2/s	@ 40 °C
Dynamic viscosity	No information available	
Explosive properties	Not an explosive	
Oxidizing properties	Not applicable	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Conditions to avoid
elevated temperature. Incompatible materials.
Incompatible materials
Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Based on available data, the classification criteria are not met.

Eye contact Severely irritating to eyes.

Skin contact Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion Based on available data, the classification criteria are not met.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyether diol	= 3750 mg/kg (Rat) > 2 g/kg (Rat)	-	-
Calcium carbonate 471-34-1	= 6450 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
N-[3-(Trimethyoxysilyl)propyl]-1,2-ethanediamine 1760-24-3	= 2413 mg/kg (Rat) = 7460 µL/kg (Rat)	-	-
Silane, ethenyltrimethoxy- 2768-02-7	= 7340 µL/kg (Rat)	= 3360 µL/kg (Rabbit)	-

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes. May cause skin irritation. May cause an allergic skin reaction.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization by skin contact.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide 13463-67-7	-	Group 2B	-	X

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.
STOT - single exposure Based on available data, the classification criteria are not met.
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.
Target Organ Effects Immune system.
Aspiration hazard Based on available data, the classification criteria are not met.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 19,267.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Tin, dibutylbis(2,4-pentanedionato-O,O)-, (OC-6-11)-	-	2: 96 h Oryzias latipes mg/L LC50 semi-static	-

22673-19-4			
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)- 25973-55-1	-	100: 96 h Danio rerio mg/L LC50 static	-

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Tin, dibutylbis(2,4-pentanedionato-O,O)-, (OC-6-11)- 22673-19-4	Toxic

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product contains titanium dioxide which is classified as an IARC 2B carcinogen based on laboratory studies where animals were exposed to titanium dioxide dust. This is not a relevant route of exposure for this product since it is a moist solid material with little to no chance of producing dust This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product

Chemical Name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen
Quartz - 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Limestone 1317-65-3	X	X	X
Titanium dioxide 13463-67-7	X	X	X
Quartz 14808-60-7	X	X	X

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	**Health hazards** 2	**Flammability** 1	**Instability** 0	**Physical and Chemical Properties** -
HMIS	**Health hazards** 2*	**Flammability** 1	**Physical hazards** 0	**Personal protection** X

Chronic Hazard Star Legend ** = Chronic Health Hazard*

Issue Date 22-Dec-2015
Revision Date 09-Jan-2023
Revision Note
No information available

Procedure used to derive the classification

Justification - Calculation method

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing,

storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SOPRA-XPS 20

INSULATION

APPLICATIONS

WALLS

TECHNICAL DATA SHEET 240128SCANE (Supersedes 231218SCANE)

DESCRIPTION

SOPRA-XPS 20 is a rigid thermal insulation board made of extruded polystyrene composed of closed cell foam.

It is mainly used as thermal insulation for above grade SOPREMA wall systems and on the inside of foundation walls. It can also be used for residential applications on exterior foundation walls and under concrete slabs.

The optimized formula of SOPRA-XPS 20 contains no CFC, no HCFC and no HFC 134a. Moreover, this formula has zero ozone depletion potential and a very low global warming potential of 1.

SOPRA-XPS 20 meets GREENGUARD GOLD certification.

Available in four edges treatment :

- Boards with butt edges on four sides
- Boards with shiplap edges on two sides
- Boards with shiplap edges on four sides
- Boards with grooves on the two longest sides; these create the space needed to insert 19 x 64 mm (1 x 3 in) wood furring when two boards are installed next to one another. This option is used for above-grade exterior walls and on the inside of foundation walls.

INSTALLATION

MECHANICALLY ATTACHED (1)

Install insulation boards using fasteners and 50 mm (2 in) diameter washers.

Install fasteners at 150 mm (6 in) on board perimeter and at 305 mm (12 in) o.c. horizontally and vertically.

When another layer of SOPRA-XPS 20 insulation is required, it should be installed with staggered joints on the first layer.

Maximum service temperature: 75 °C (167 °F).

(1): A 100 mm (4 in) SOPRASEAL STICK FLASHPRO, SOPRASEAL STICK FLASHPRO HT or ALL-WEATHER BUTYL FLASHING TAPE self-adhering membrane strip can then be installed centered on panel joints.

RESTRICTIONS

SOPRA-XPS 20 is installed where the applied loads do not exceed 20 psi. SOPRA-XPS 20 is a combustible product. To comply with the National Building Code, it must be used in combination with a thermal barrier. SOPRA-XPS 20 should not be exposed to UV rays for more than 60 days.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

SOPRA-XPS 20

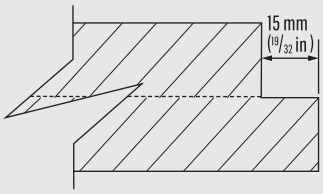
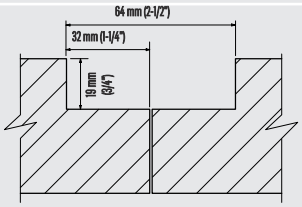
INSULATION

APPLICATIONS

WALLS

TECHNICAL DATA SHEET 240128SCANE (Supersedes 231218SCANE)

GENERAL INFORMATION

Specifications	SOPRA-XPS 20	
	Board Dimensions (1)	Board Thicknesses (1)
Shiplap on 2 edges (length)	2438 mm x 1220 mm (8 ft x 4 ft)	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in) 76 mm (3 in) 100 mm (4 in)
	2743 mm x 1220 mm (9 ft x 4 ft)	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in)
Shiplap on 4 edges	2438 mm x 610 mm (8 ft x 2 ft)	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in) 76 mm (3 in)
Slotted on 2 edges (length)	2438 mm x 610 mm (8 ft x 2 ft)	38 mm (1.5 in) 51 mm (2 in)
Butt on 4 edges	2438 mm x 610 mm (8 ft x 2 ft)	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in) 76 mm (3 in)
Shiplap dimension		
Slotted dimensions		
Colour	Grey	

(All values are nominal)
(1): Other thicknesses and dimensions available upon request.

SOPRA-XPS 20

INSULATION

APPLICATIONS

WALLS

TECHNICAL DATA SHEET 240128SCANE (Supersedes 231218SCANE)

PROPERTIES

SOPRA-XPS 20 meets the requirements of CAN/ULC S701.1 Type 3 (ASTM C578-14 Type IV).

Properties		Standards	SOPRA-XPS 20
Long term thermal resistance (LTTR) (1)	*25.4 mm (1 in)* *38.1 mm (1.5 in)* *50.8 mm (2 in)* *76.2 mm (3 in)* *101.6 mm (4 in)*	CAN/ULC-S770-15	0.95 RSI (R-5.39) 1.43 RSI (R-8.12) 1.93 RSI (R-10.96) 2.93 RSI (R-16.64) 3.96 RSI (R-22.49)
Water Vapour Permeance, *25 mm (1 in) thickness*		ASTM E96 *(Procedure A)*	38 ng/Pa•s•m² (0.66 perm)
Flame spread rating		CAN/ULC-S102.2 (2)	> 25 < 500
Dimensional Stability, max.		ASTM D2126	1.5 %
Min. Flexural Strength		ASTM C203	500 kPa (73 psi)
Water Absorption, *% by volume, max.*		ASTM D2842	0.7
Water Absorption, *% by volume, max.*		ASTM C272	0.1
Min. Compressive Strength		ASTM D1621	140 kPa (20 psi)
Limiting Oxygen Index		ASTM D2863	24 %
Global recycled content (3)		-	76 %

(All values are nominal)
For CCMC product evaluation see CCMC Evaluation listing 14372-L.

(1): The aged thermal resistance after 90 days of SOPRA-XPS 20 as per ASTM C518 is RSI-0.88 (R-5.0) for products that are 25 mm (1 in) thick.
(2): CAN/ULC S102.2 : Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies.
(3): The recycled content varies according to the compression range. The global recycled content is made of one part post- and pre-consumer content validated by CT Consultant, and another part which accounts for the manufacturing process recovery value. The specific details of the products covered by this validation can be found on the Recycled Content Certificate available on our website.

STORAGE AND HANDLING

SOPRA-XPS 20 thermal insulation boards are covered with a temporary waterproof packaging for handling the panels in the manufacturing plant and during transit.

SOPRA-XPS 20 thermal insulation boards must be stored on a flat substrate in their original packaging. If the products are stored outdoors, cover them with an opaque protective cover if the original packaging is removed so that the boards are always protected from UV and sheltered from inclement weather. As they are flammable, they must be protected and kept away from flames and intense heat sources during transportation, handling, storage, and installation.

SAFETY DATA SHEET

SOPRA-XPS

Section 1. Identification

GHS product identifier : SOPRA-XPS

Document product code : CA U DRU SS FS 238

Other means of identification : Not available.

Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Rigid extruded polystyrene used as thermal insulation for foundation systems, inverted roofs (including roof terraces and green roofs) and parking lots.

Supplier/Manufacturer : SOPREMA Inc.
5255 Robert-Boyd Street
Sherbrooke (Quebec) J1R 0W8
CANADA

Emergency telephone number (with hours of operation) : SOPREMA Inc. / CANUTEC / CHEMTREC
+1 (800) 567-1492 (SOPREMA Inc.) / +1 (613) 996-6666 (CANUTEC) / +1 (800) 424-9300 (CHEMTREC Acct.# CCN20515)
SOPREMA Inc. (8h00-17h00) / CANUTEC (24h) / CHEMTREC (24h)

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

This product is a manufactured product under the Canadian WHMIS and an Article under the United States Hazard Communication System. Therefore it is EXEMPTED from the regulatory requirements under WHMIS, HCS, the States Right-to-Know and California Proposition 65.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Section 2. Hazards identification

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : If dust particles are inhaled, remove to fresh air and consult a physician if necessary.

Skin contact : If skin irritation occurs, wash with soap and water. If irritation persists, get medical attention.

Ingestion : Not a normal route of entry.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically.

Specific treatments : No specific treatment.

Protection of first-aiders : Not applicable.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters : No special protection is required.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Put on appropriate personal protective equipment.

For emergency responders : Not applicable.

Environmental precautions : Not applicable.

Methods and materials for containment and cleaning up

Spill : Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

None.

Canada

Occupational exposure limits

None.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Not applicable.

Section 9. Physical and chemical properties

Appearance

Physical state : Solid.

Color : Light grey.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : Not available.

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Section 9. Physical and chemical properties

Vapor density : Not available.

Relative density : Not available.

Solubility : Not available.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Flow time (ISO 2431) : Not available.

VOC = Volatile Organic Compound : N/A

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

AERG : Not applicable

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

SARA 313

There is no data available.

State regulations

Massachusetts : The following components are listed: Talc

New York : None of the components are listed.

New Jersey : The following components are listed: White mineral oil (petroleum); Talc

Pennsylvania : The following components are listed: White mineral oil (petroleum); Talc

California Prop. 65

⚠ **WARNING**: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Canada

Canadian lists

Canadian NPRI : The following components are listed: White mineral oil (petroleum)

CEPA Toxic substances : None of the components are listed.

Canada inventory (DSL NDSL) : Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue mm/dd/yyyy : 06/30/2018

Date of previous issue : Not applicable

Version : 1

Prepared by : KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic® EP Primer/Sealer

Two-component universal epoxy primer for use with Sikalastic® roofing and waterproofing systems

PRODUCT DESCRIPTION

Sikalastic® EP Primer/Sealer consists of two components: an epoxy resin (Part A), and an activator (Part B). In its wet mixed state, it is red in color.

USES

- Versatile primer for use with Sikalastic® roofing and waterproofing systems
- Suitable for use on most sound substrate surfaces where both a penetrative and surface-lying effect is required
- Bleed blocker for residual asphalt contaminated vertical flashing substrates
- Acceptable substrates include · sound concrete and masonary · wood and plywood · modified bitumen membrane · mineralized asphaltic cap sheet · asphalt and mastic · ferrours metals · galvanized · lead · copper · aluminum · brass · stainless steel · Sarnafil® membranes · Sikaplan® membranes

CHARACTERISTICS / ADVANTAGES

- Low odor, low VOC formulation
- Compatible with most common substrate and flashing materials
- Corrosion protection in industrial and marine environments
- Enhances adhesion to a broad range of metallic substrates
- Protects against migration of volatile bitumen or plasticizers
- Easy application by brush or roller

Note from Sika:

The EP primer is only used for application on metal.If you are applying it onto concrete, there is no need for a primer unless you are applying at rising temperature. Application should be done at falling temperatures.

PRODUCT INFORMATION

Chemical Base	Epoxy	
Packaging	1 gal. kit (0.75 gal. Part A, 0.25 gal. Part B) 4 gal. kit (3.0 gal. Part A, 1.0 gal. Part B)	
Color	Red	
Shelf Life	24 months	
Storage Conditions	Store dry between 40 °F and 95 °F (2–35 °C) Condition material to 50–77 °F (10–25 °C) before using for ease of application.	
Volatile organic compound (VOC) content	78 g/l	(ASTM D-2369-81)

Solid content by volume	92%	(ASTM D-2697)

TECHNICAL INFORMATION

Service Temperature	-22–176 °F (-30–80 °C) intermittent
Adhesion in peel	Adhesion tests should be completed at a minimum of 72 hours after application. Sikalastic® EP Primer/Sealer may take 1 week to reach final adhesion strength depending on temperature and other climate conditions. Refer to adhesion test protocol on the Sika website.

APPLICATION INFORMATION

Mixing Ratio	Component A to Component B = 3 to 1 (by volume) PREMIX PART A BEFORE MIXING PARTS A & B TOGETHER
Coverage	Coverage: 200 - 250 ft²/gal. on non-absorbent smooth substrates 150 - 200 ft²/gal. on prepared, dry concrete 75 - 100 ft²/gal. on mineral surfaced modified bitumen 200 ft²/gal. (max) when ussed as an asphaltic bleed blocker Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield
Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) max.
Relative Air Humidity	80 % R.H. max.
Dew Point	Beware of condensation. The substrate and uncured coating must be ≥ 5 °F (3 °C) above dew point.
Substrate Temperature	41 °F (5 °C) min. / 140°F (60°C) max.
Substrate Moisture Content	≤ 4 % moisture content Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).
Pot Life	45 minutes
Waiting / Recoat Times	Before applying any recommended Sikalastic® resin on Sikalastic® EP Primer/Sealer, allow:

Ambient temperature	Mimimum waiting time	Maximum waiting time	Touch dry
50 °F	12 hours	72 hours	8 hours
68 °F	9 hours	72 hours	4 hours
88 °F	6 hours	72 hours	3 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
Ideally, membrane resin will be applied within 24 hours of primer application. Maximum primer exposure is 72 hours. Primer exposed longer than 72 hours, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- To avoid dew point conditions during application, relative humidity must be no more than 95 % and substrate temperature must be at least 5 °F (3 °C) above measured dew point temperatures.

- Minimum ambient and substrate temperature during application and curing of material is 41 °F (5 °C); maximum is 95 °F (35 °C). Surface temperatures must be no higher than 140 °F (60 °C).
- Do not apply on substrates with moisture content greater than 4 % by weight, measured by Tramex® Concrete Moisture Encounter Meter.
- Minimum age of concrete must be 28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure.
- This condition may be checked using ASTM D-4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing may occur.
- Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of ingress during application and cure.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required.
- On grade concrete decks should not be covered with Sikalastic® membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sikalastic® membrane systems without deck evaluation and subsequent approval by Technical Services.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and masonry, wood and plywood, modified bitumen membrane, mineralized asphaltic cap sheet, asphalt and asphalt mastic, ferrous metals, galvanized, lead, copper, aluminum, brass, and stainless steel. Reference separate System Data Sheet for specific surface preparation requirements.

MIXING

Mix ratio is 3 to 1 (A:B) by volume. **PREMIX PART A BEFORE MIXING PARTS A & B TOGETHER.** Add Part B into Part A and mix with a mechanical mixer (Jiffy) at low speed for 3 minutes. Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and of a uniform red color. Do not break down kits into smaller quantities.

APPLICATION

Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling.

CLEANING OF TOOLS

Remove wet primer with solvents. Once cured, primer can only be removed by
mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling 1-800-933-7452.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com

SECTION 1. IDENTIFICATION

Product name	:	Sikalastic® EP Primer/Sealer Part A
Company name	:	Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 USA www.sikausa.com
Telephone	:	(201) 933-8800
Telefax	:	(201) 804-1076
E-mail address	:	ehs@sika-corp.com
Emergency telephone	:	CHEMTREC: 800-424-9300 INTERNATIONAL: +1-703-527-3887
Recommended use of the chemical and restrictions on use	:	For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Skin sensitization	:	Category 1
Carcinogenicity (Inhalation)	:	Category 1A
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure	:	Category 1 (Lungs)

GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H227 Combustible liquid.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H350 May cause cancer by inhalation.
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317	>= 30 - < 50
Quartz (SiO2) >5µm	14808-60-7	Carc. 1A; H350 STOT RE 1; H372 STOT SE 3; H335	>= 20 - < 30
Talc	14807-96-6		>= 10 - < 20
oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 10 - < 20
solvent naphtha (petroleum), light arom.	64742-95-6	Flam. Liq. 3; H226 STOT SE 3; H335, H336 Asp. Tox. 1; H304	>= 5 - < 10
ethylbenzene	100-41-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Eye Irrit. 2A; H319	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	:	irritant effects sensitizing effects Cough Respiratory disorder Allergic reactions Excessive lachrymation Erythema Dermatitis Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO2)
Unsuitable extinguishing media	:	Water
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Deny access to unprotected persons.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors or spray mist.
Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products.

Conditions for safe storage : Store in original container.
Keep in a well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Store in accordance with local regulations.

Materials to avoid : Explosives
Oxidizing agents
Poisonous gases
Poisonous liquids

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO2) >5µm	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable dust	0.1 mg/m3	OSHA P0

		fraction)		
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
		PEL (respirable)	0.05 mg/m3	OSHA CARC
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
Talc	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (respirable dust fraction)	2 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
		PEL (respirable)	0.05 mg/m3	OSHA CARC
solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
		TWA	20 ppm	ACGIH

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection	:	Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	red
Odor	:	aromatic
Odor Threshold	:	No data available
pH	:	Not applicable
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	155.8 °F / 68.8 °C (Method: closed cup)
Evaporation rate	:	No data available

Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	0.01 hpa
Relative vapor density	:	No data available
Density	:	ca. 1.54 g/cm3 (73 °F / 23 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	ca. > 20.5 mm2/s (104 °F / 40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	72 g/l A+B Combined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	No data available
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Components:

bisphenol-A-(epichlorhydrin) epoxy resin:

Acute oral toxicity	:	LD50 Oral (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 20,000 mg/kg

ethylbenzene:

Acute oral toxicity	:	LD50 Oral (Rat): 3,500 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 5,510 mg/kg

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization
May cause an allergic skin reaction.

Respiratory sensitization
Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
May cause cancer by inhalation.

IARC	Group 1: Carcinogenic to humans Quartz (SiO_2) (Silica dust, crystalline)	14808-60-7
	Group 2B: Possibly carcinogenic to humans Titanium dioxide (> 10 µm)	13463-67-7
	Group 2B: Possibly carcinogenic to humans ethylbenzene	100-41-4
OSHA	OSHA specifically regulated carcinogen Quartz (SiO_2) (crystalline silica)	14808-60-7
	OSHA specifically regulated carcinogen Talc ($Mg_3H_2(SiO_3)_4$) (crystalline silica)	14807-96-6
NTP	Known to be human carcinogen	

Quartz (SiO_2) (Silica, Crystalline (Respirable Size))	14808-60-7

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure.
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Titanium dioxide (13463-67-7)
In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiological studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

bisphenol-A-(epichlorhydrin) epoxy resin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.8 mg/l

aquatic invertebrates	Exposure time: 48 h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information	:	Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May be harmful to the environment if released in large quantities. Water polluting material.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964

IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

Domestic regulation

49 CFR
Not regulated as a dangerous good

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)
xylene	1330-20-7	100

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Respiratory or skin sensitization
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

ethylbenzene 100-41-4 >= 0.1 - < 1 %

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

⚠ **WARNING:** This product can expose you to chemicals including Quartz (SiO2) >5µm, which is known to the State of California to cause cancer, and Oxirane, (chloromethyl)- Epichlorohydrin, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA CARC	:	OSHA Specifically Regulated Chemicals/Carcinogens
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
OSHA CARC / PEL	:	Permissible exposure limit (PEL)
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

Notes to Reader

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SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 06/27/2023

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US / Z8

SECTION 1. IDENTIFICATION

Product name	:	Sikalastic® EP Primer/Sealer Part B
Company name	:	Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 USA www.sikausa.com
Telephone	:	(201) 933-8800
Telefax	:	(201) 804-1076
E-mail address	:	ehs@sika-corp.com
Emergency telephone	:	CHEMTREC: 800-424-9300 INTERNATIONAL: +1-703-527-3887
Recommended use of the chemical and restrictions on use	:	For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral)	:	Category 4
Skin corrosion	:	Category 1C
Serious eye damage	:	Category 1
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1

GHS label elements

Hazard pictograms :

Signal Word	:	Danger
Hazard Statements	:	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Benzyl alcohol	100-51-6	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2A; H319	>= 30 - < 50
Isophoronediamine	2855-13-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317	>= 20 - < 30
2-piperazin-1-ylethylamine	140-31-8	Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Repr. 2; H361 STOT RE 1; H372	>= 5 - < 10
P-tert-butylphenol (PTBP)	98-54-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361	>= 5 - < 10
m-phenylenebis(methylamine)	1477-55-0	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1B; H317	>= 1 - < 5
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with ethylenediamine	72480-18-3	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not induce vomiting without medical advice.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed : Health injuries may be delayed.
corrosive effects
sensitizing effects
Gastrointestinal discomfort
Allergic reactions
Dermatitis
Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
Suspected of damaging fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.
Causes severe burns.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Deny access to unprotected persons.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.
Conditions for safe storage	:	Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.
Materials to avoid	:	Explosives Oxidizing agents Poisonous gases Dangerous when wet Flammable solids Organic peroxides Poisonous liquids Spontaneously Combustible Substances

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
m-phenylenebis(methylamine)	1477-55-0	C	0.018 ppm	ACGIH
		C	0.1 mg/m3	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.
Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear, yellow
Odor	:	amine-like
Odor Threshold	:	No data available
pH	:	Not applicable
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available

Flash point	:	> 199.99 °F / > 93.33 °C (Method: closed cup)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	0.07 hpa
Relative vapor density	:	No data available
Density	:	ca. 1.025 g/cm3 (73 °F / 23 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	> 20.5 mm2/s (104 °F / 40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	72 g/l A+B Combined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	No data available

Incompatible materials	:	No data available
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Components:

Benzyl alcohol:

Acute oral toxicity	:	LD50 Oral (Rat): 1,620 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 4.178 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Isophoronediamine:

Acute oral toxicity	:	LD50 Oral (Rat): 1,030 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 - 5,000 mg/kg

2-piperazin-1-ylethylamine:

Acute oral toxicity	:	LD50 Oral (Rat): 2,097 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): ca. 866 mg/kg

m-phenylenebis(methylamine):

Acute oral toxicity	:	LD50 Oral (Rat): 930 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 1.34 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: Corrosive to the respiratory tract.
Acute dermal toxicity	:	LD50 Dermal (Rat): > 3,100 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Method	:	In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX
Result	:	Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC	Not applicable
OSHA	Not applicable
NTP	Not applicable

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Benzyl alcohol:

Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h

Isophoronediamine:

Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l

NOEC (Desmodesmus subspicatus (green algae)): 1.5 mg/l

2-piperazin-1-ylethylamine:

Toxicity to fish : LC50 (Fish): > 100 mg/l
Exposure time: 96 h

m-phenylenebis(methylamine):

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 10 - 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Do not empty into drains; dispose of this material and its container in a safe way.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
May be harmful to the environment if released in large quantities.
Water polluting material.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	:	UN 3066
Proper shipping name	:	Paint related material
Class	:	8
Packing group	:	III
Labels	:	Corrosive
Packing instruction (cargo aircraft)	:	856
Packing instruction (passenger aircraft)	:	852

IMDG-Code

UN number	:	UN 3066
Proper shipping name	:	PAINT RELATED MATERIAL (4-tert-butylphenol)
Class	:	8
Packing group	:	III
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	yes

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 3066
Proper shipping name	:	Paint related material
Class	:	8
Packing group	:	III
Labels	:	CORROSIVE
ERG Code	:	153
Marine pollutant	:	no

DOT: For Limited Quantity exceptions reference 49 CFR 173.154 (b)
IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Acute toxicity (any route of exposure) Respiratory or skin sensitization Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
ACGIH / C	:	Ceiling limit
OSHA P0 / C	:	Ceiling limit

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Revision Date 06/23/2023

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Sika Canada Inc.

Mar 4th , 2025

Flynn Group of Companies
6435 Northwest Drive
Mississauga, Ontario, L4V 1K2
Canada

Attention: Parth Mehta- Waterproofing Coordinator

Subject: Sikalastic 320 Application on Foundation Walls- NorthEastern University

Based on the information provided by Flynn, Sika Canada confirms the use of the following products for the above-mentioned project foundation walls along with Sikalastic 320:

1. Henry PumaDeq N Fleece where necessary to reinforce Sikalastic 320 liquid applied membrane. The fleece reinforcement should be in polyester with a density of approx. 120 g/m^2.
2. Hi-Core® fluted polypropylene sheets as a protection board before backfilling

Flynn should refer to the latest data sheets for Sikalastic 320 for application instructions and limitations.

As a reminder, Sika, as a manufacturer, cannot be held responsible for the design, application or testing results. Any approval of the design or the work of the contractor is the responsibility of the Project Engineer.

I trust this meets your requirements, please contact me with any further questions.

Kind regards:
Rania Haddad

Rania Haddad
Area Sales Manager
Commercial Construction Central
SIKA CANADA INC.
Address: 555 Michigan Dr., Suite 100 · Oakville · ON · L6L 0G4 · Canada
Cell: +1 416 433 8898
Haddad.rania@ca.sika.com · www.sika.com

Sika Canada Inc.
601, Delmar Avenue
Pointe-Claire, QC H9R 4A9
Tel.: (514) 697-2610
Fax : (514) 694-2792

Ontario
555 Michigan Drive
Oakville ON ON · L6L 0G4
Tel.: (905) 639 2993

Alberta
18131-114th Avenue N.W.
Edmonton, AB T5S 1T8
Tel.: (780) 486-6111
Fax: (780) 483-1580

www.sika.ca

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