

Epoxy

PRODUCT DESCRIPTION

A two component, low VOC, high solids, fast curing epoxy primer containing zinc phosphate anti-corrosive pigmentation.

Suitable for overcoating within 4 hours under common climatic conditions. Early handling properties make this an ideal primer for speeding up production and throughput.

This primer's versatile application properties provide robust film thickness control as supplied, without the need to thin.

INTENDED USES

For use on a range of industrial facilities and infrastructure assets.

This primer, in combination with approved topcoat, offers good anticorrosive protection and high durability in medium to high corrosive atmospheric environments, for example, up to and including C4 category as defined in ISO12944-2.

PRACTICAL INFORMATION FOR INTERGARD 251HS

Colour	Red, Grey, Buff
Gloss Level	Matt
Volume Solids	75% ± 2%
Typical Thickness	75-200 microns (3-8 mils) dry equivalent to 100-267 microns (4-10.7 mils) wet
Theoretical Coverage	10 m ² /litre at 75 microns d.f.t and stated volume solids 401 sq.ft/US gallon at 3 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Air Spray, Brush, Roller

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
5°C (41°F)	2 hours	5.5 hours	4 hours	12 months
15°C (59°F)	60 minutes	3.5 hours	3 hours	12 months
25°C (77°F)	30 minutes	2.25 hours	2 hours	12 months
40°C (104°F)	15 minutes	60 minutes	60 minutes	12 months

Maximum overcoating intervals are shorter when using polysiloxane topcoats. Consult International Protective Coatings for further details.

REGULATORY DATA

Flash Point (Typical)	Part A 31°C (88°F); Part B 30°C (86°F); Mixed 31°C (88°F)		
Product Weight	1.59 kg/l (13.3 lb/gal)		
VOC	2.02 lb/gal (243 g/l) 157 g/kg	EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC)	

See Product Characteristics section for further details

Protective Coatings

Epoxy

SURFACE PREPARATION

All steel surfaces to be coated should be clean, dry and free from contamination. Prior to paint application, all surfaces should be assessed and treated in accordance with ISO 8504-2000.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Steel

Abrasive blast clean to a minimum of Sa2½ (ISO 8501-1:2007) SSPC-SP6. If oxidation has occurred between blasting and application of Intergard 251HS the surface should be re-blasted to the specified visual standard. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

A surface profile of 40-75 microns (1.5-3.0 mils) is recommended.

Shop Primed Steelwork

Weld seams and damaged areas should be abrasive blast cleaned to a minimum Sa2½ standard (ISO 8501-1:2007) or SSPC SP6. Where this is not practical, preparation to SSPC SP11 is acceptable.

APPLICATION

Mixing	Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.		
	(1)	Agitate Base (Part A) with a power agitator.	
	(2)	Agitate Curing Agent (Part B) with a power agitator.	
	(3)	Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.	
Mix Ratio	3 part(s) : 1 part(s) by volume		
Working Pot Life	5°C (41°F) 90 minutes	15°C (59°F) 60 minutes	25°C (77°F) 40°C (104°F) 60 minutes 30 minutes
Airless Spray	Recommended	Tip Range 0.43-0.53 mm (17-21 thou) Total output fluid pressure at spray tip not less than 155 kg/cm ² (2204 p.s.i.)	
Air Spray (Pressure Pot)	Suitable	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E
Brush	Suitable	Recommended for small areas and repairs, multiple coats will be necessary to achieve the required dry film thickness.	
Roller	Suitable	Recommended for small areas and repairs, multiple coats will be necessary to achieve the required dry film thickness.	
Thinner	International GTA220	Do not thin more than allowed by local environmental legislation	
Cleaner	International GTA822		
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.		
Clean Up	Clean all equipment immediately after use with International GTA822. It is good working practice to periodically clean equipment during the course of the working day. Frequency of cleaning will depend upon amount used, temperature and elapsed time, including any delays.		
	All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.		

supplier : manage@findotek.com

Epoxy

PRODUCT CHARACTERISTICS

Intergard 251HS is preferred for use with systems for chemical environments where zinc based materials can be subject to attack in both acidic and alkaline conditions.

Apply in good climatic conditions. The temperature of the surface to be coated must be at least 3°C (5°F) above the dew point.

Over-application of Intergard 251HS will extend both the minimum overcoating periods and handling times.

When applying Intergard 251HS by brush or roller, it may be necessary to apply multiple coats to achieve the required film build.

In common with all epoxies, Intergard 251HS will chalk and discolour on exterior exposure. Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

Intergard 251HS is not designed for continuous water immersion.

An alternative curing agent to improve application properties in tropical climates is also available.

The following drying times and overcoating intervals apply when the tropical climate curing agent is used;

<u>Temperature</u>	<u>Touch Dry</u>	<u>Hard Dry</u>	<u>Overcoating Interval with recommended topcoats</u>	
			<u>Minimum</u>	<u>Maximum</u>
5°C (41°F)	5 hours	16 hours	16 hours	12 months
15°C (59°F)	4 hours	6 hours	6 hours	12 months
25°C (77°F)	90 minutes	4 hours	4 hours	12 months
40°C (104°F)	45 minutes	2 hours	2 hours	12 months

Pot Life:

5°C (41°F)	15°C (59°F)	25°C (77°F)	40°C (104°F)
2 hours	2 hours	90 minutes	60 minutes

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY

Recommended topcoats are:

Interfine 878	Interfine 979
Interseal 670HS	Interthane 870
Interthane 870UHS*	Interthane 990
Interthane 990V*	Interzone 954

For other suitable topcoats, consult International Protective Coatings.

*available only in selected countries.

Epoxy

ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	20 litre	15 litre	20 litre	5 litre	5 litre
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
				Vol	Pack
	20 litre	26.8 kg		7.1 kg	
STORAGE	Shelf Life	12 months at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

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