

RepCoat PW

A Two Component, Fast Curing, Low Odor, NSF Approved,
Liquid-Applied Base Membrane and Potable Water Tank Lining Material

DESCRIPTION:

RepCoat PW is a two component, fast curing, low odor, NSF approved, liquid applied, asphalt extended, aromatic-polyurethane base membrane that adheres to most substrates, to form a waterproof membrane. Please use the correct product grade that complies with VOC regulations as per federal, state, statutory bodies, county and city regulations/codes at the place of installation of product.

FEATURES:

- Bridges Cracks & Joints
- Economical
- Impervious to Water & Various Aqueous Chemicals
- Proven Protection
- Seamless Waterproof Membrane
- UV Stable (Color Fades)
- VOC Compliant

TYPICAL USES:

- Corrosion Protection
- Containment
- Waterproofing
- Potable Water Containment/Storage
- Pond Liners
- Tank Liners

COMMON SUBSTRATES:

- Asphalt
- Concrete
- Glass
- Metal
- Steel
- Wood

COLOR:

Black – fades to dull black

PACKAGING:

4.5-gallon kit (17 liter): 2-gallon jar containing net 0.45 gallon (1.70 liters) of Side-A and 5-gallon pail containing net 4.05 gallons (15.30 liter) of Side-B.



TECHNICAL DATA (Based on draw down films)		
ANSI/NSF 61 Approved up to		140°F (60°C)
Elastomeric Waterproofing,	ASTM C- 836	Exceed
	ASTM C-957	Exceed
Total Solids by Volume, ASTM D-2697		89% ± 2%
Volatile Organic Compounds, ASTM D-2369-81		87 gm/liter
Mullen Burst Strength, ASTM D-75 (1.50 mil or 38 microns)		155 psi (no break) (1.07 MPa)
Tensile Strength, ASTM D-412, 100 mil sheet (254 microns)		900 ± 100 psi (6.21 MPa)
Tear, ASTM D-624		150 ± 50 psi (26 ± 8 kN/m)
Extension to Break, ASTM D-412		450 ± 100%
Membrane Weight, 60 mils (1.5mm WFT or 38 microns)		Approx. 30 lbs/100 sqft (1.48 kgs/sqm)
Recovery from 100% extension, After 5 minutes		98%
After 24 hours		100%
Crack Bridging,	10 cycles @ -15°F (-26.1°C) After Heating Aging	> 1/8" (0.3175 cm) > 1/4" (0.65 cm)
Weathering, ASTM D-822		Pass 5000 hrs
Softening Point, Ring Ball, ASTM D-36		>400°F (205°C)
Deflection Temp., ASTM D-648		Pass
Service Temperature		-60 to 200°F (-51-93.3°C)
Hardness, ASTM D-2240 @ 77°F (25°C) Shore A		60 ± 5
Permeability to Water Vapor, ASTM D-96 method E, 100°F (37.5°C), 100 mil sheet (254 microns)		0.06 perm
Abrasion Resistance - Wt. Loss Taber Abraser CS-17 Wheel, 1000 gr./1000 re., ASTM D-4060		7.2 mg loss
Electrical Resistivity, ASTM D-257, 50% R.H. @ 75°C (23°C), 2" (50 mm) disc, 100 mil (2.5 mm) thickness		3.86 x 10 ¹⁴ ohm.cm
Adhesion to Concrete (dry) Elcometer		350 psi (2.07 MPa)
Time to Reach 20 Shore A Hardness, @ 77°F (25°C), 200 gram quantity		24 Hours Max
Set Time to Polyurethane Film hours, ASTM -D164 procedure 5.3.2		4 hours
Working Time (Pot Life) @ 77°F		18-20 min

SURFACE PREPARATION:

Refer to General and Safety Guidelines for complete information. Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3. Surface preparation may be completed by shot blasting or the use of PrepEtch cleaner. Peel and adhesion tests are recommended. Install a 100-200 sqft (9.30-18.58 sqm) mock up of the system to be installed and approve for aesthetics, color, slip resistance, actual coverage rates and functionality before proceeding.

MIXING:

Using a mechanical mixer, first premix **RepCoat PW** Side-B material thoroughly to obtain a uniform color. Pour Side-A into Side-B slowly while mixing. Mix for 3-4 minutes. Use care not to allow the entrapment of air into the mixture. NOTE: **RepCoat PW** should NOT be mixed by hand. NOTE: **RepCoat PW** may NOT be diluted under any circumstances. DO NOT ESTIMATE, proportions are premeasured.

JOINTS, CRACKS, AND FLASHING:

Apply a single or two component non-gassing polyurethane sealant over all joints, cracks and flashing. Bridge the joints and cracks and flashing with 2 3/4" (7-10.14 cm) polyester or polyurethane foam tape pushing the tape into the 20 mil (508 microns) prestripe of the basecoat. Alternatively, joints and cracks 1/16" or larger may be sealed flush with PTS E-101 concealed with 4" (10 cm) Super Seal Tape (concrete must be primed first and allow to dry).

Over reinforcement tape, apply a pre-stripe coat of RepCoat PW material and taper it onto the adjacent surface. Alternatively, no crack chasing or pre-stripe is necessary with the use of **Super Seal Tape** over a primed surface (see **Super Seal Tape** Data Sheet). Allow the surface to cure for 1 to 2 hours.

APPLICATION BASICS:

Apply two coats of **RepCoat PW** at 2 gallons per 100 sqft or 50 sqft/ gallon (0.82 liters/m²) each coat directly to a clean dry substrate.

Application of **RepCoat PW** should not start if surface temperature is below 50° F (10° C) and must be 5° F (3° C) above dew point. **RepCoat PW** is very fast cure and should only be mixed with a minimum of 500 rpm drill.

Do not apply when the ambient or substrate temperature is rising. Do not apply **RepCoat PW** in direct sunlight.

Spray equipment, squeegee, notched trowel or phenolic-resin-core roller may be used, if a roller is used extra care should be taken not to trap air bubbles into the mixture. Apply **RepCoat PW** evenly over the entire deck at 60 wet mils (1524 microns). Most applications require only one coat, but if needed **RepCoat PW** may be recoated in one (1) hour and no longer than four (4) hours after mixing. If **RepCoat PW** has cured for more than our (4) hours, the surface may need to be mechanically abraded before recoating.

RepCoat PW can be used in combination with fabric in a two-coat system especially for roofing application.

COVERAGE RATES:

Coverage rates and cure times will vary depending on temperature, relative humidity, surface roughness and porosity, aggregate selection and embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.

CURING:

Allow coating to cure for 24 hours for light traffic, or 72 hours for heavy traffic.

RepCoat PW is sensitive to heat and moisture and this could accelerate the curing time. An allowable 32 oz (0.95 liters) of clean, water free mineral spirits per 4.5 gallon kit (subject to meeting local regulations) poured into the already mixed container immediately after mixing, will help extend the cure time. No other dilution is acceptable.

**EQUIPMENT CLEANUP:**

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

SHELF LIFE AND STORAGE:

RepCoat PW has a shelf life of 12 months from date of manufacture when stored indoors at a temperature between 60°F to 95°F (15°C to 35°C) in original, factory-sealed containers



LIMITATIONS:

- Do not apply **RepCoat PW** in wet weather or if rain is imminent, coating should not become wet within four (4) hours after application.
- Containers that have been opened must be used as soon as possible.
- Do not dilute under any circumstance except as noted above.

The following conditions must not be coated with POSI deck coating systems or products:

- 1) On grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool, swimming pool decks, or areas where hydrostatic pressure is or may be present, without the use of **RepDeck PC-1** primer and asphalt surfaces, asphalt overlays without the express written consent of PSI. PSI Deck Coating is not recommended over magnesite, gypsum lightweight and where chained or studded tires may be used.
- 2) Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 2-3 surface or greater is required for concrete surfaces to be coated.
- 3) New concrete must be cured for 28 days unless otherwise approved by **TuffTex Materials, Inc.** in writing. New surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function. Light broom finished concrete should be power-washed before coating application.
- 4) Concrete cleaning (see General and Safety Guidelines). Surface preparation may be completed by shotblasting or the use of **PrepEtch** (PE) cleaner. Peel and adhesion tests are recommended.

**WARRANTY:**

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either **TuffTex Materials, Inc.** or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

DISCLAIMER:

Refer to the SDS sheet before use. The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of **TuffTex Materials, Inc.** Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Published technical data and instructions are subject to change without notice. Contact your local **TuffTex Materials, Inc.** distributor or technical representative for additional technical data and instructions.