

COVERAGE

15 ft² / gallon @ 120 mils (Includes two 60 mil coats and saturant)

SEE SYSTEM DETAILS IN “TYPICAL INSTALLATION” PORTION OF THIS DOCUMENT

STORAGE & INSTALLATION

STORAGE ENVIRONMENT	Dry area, 65-80°F
APPLICATION TEMPERATURE, AMBIENT	50-95°F
APPLICATION TEMPERATURE, SUBSTRATE	Minimum 5°F above dew point
SHELF LIFE, provided storage environment guidelines are followed	120 days
POT LIFE, @ 77°F	35 minutes
FULL SERVICE, @ 77°F	7 days
RECOAT WINDOW	Minimum: 4 Hours, Maximum: 24 Hours

CONSIDERATIONS & LIMITATIONS

1. This lining is not recommended for resistance to alkaline chemicals
2. For best results, work area should be humidity and temperature controlled.
3. Work area must be well ventilated. Fresh air fed respirators are recommended when working with this product.
4. Do not thin with solvents unless advised to do so by ITW Engineered Polymers.
5. Confirm product performance in specific chemical environment prior to use.
6. Prepare substrate according to “Surface Preparation” portion of this document.
7. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
8. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
9. For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION

CONCRETE: Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541.
- Surface profile shall be CSP-3 to CSP-5 meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 60-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- Moisture vapor transmission should be 3 pounds or less per 1,000 square feet over a 24 hour time period, as confirmed through a calcium chloride test, as per ASTM E-1907. Quantitative relative humidity (RH) testing, ASTM F-2170, should confirm concrete RH results <75%.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.
- Outgassing may occur due to the porosity of some concrete surfaces. To reduce the effect of outgassing, the primer and coating should be applied when the temperature of the concrete substrate is dropping. This usually occurs in the evening; however, the concrete substrate temperature should be measured with a surface thermometer for verification. Double priming will greatly reduce the effects of outgassing by additionally filling the pores in the concrete.

STEEL: For immersion service, “White Metal” abrasive blast with an anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-5-63 or NACE No. 1 is required. For splash and spillage exposure, “Near White” SP-10-63 or NACE No. 2 is required.

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. Prime surface with PolySpec PE-310 Primer. See data sheet for application details.
2. Use a mortar/mud mixture of PolySpec PE-310 mixed with F-4 Powder, (approximately 4-parts powder to 1-part mixed resin), to round the corner radius of vertical to horizontal transitions, to smooth weld seams, and to patch holes and irregularities. See data sheet for application details.
3. Pour Hardener into PermaRez 335 Resin pail. Mix thoroughly using a jiffytype mixer operated at low speed until a proper blend is attained. Scrape the sides of the pail to ensure the product has been properly mixed; any unmixed material left on the side of the pail will not cure.
NOTE: Mix ratio is 2.0 ounces Hardener #3 to one gallon PermaRez 335 Resin.
4. Stir in F-4 or F-5 filler powder and mix well until all particles are wetted out.
NOTE: Mix ratio is approximately 25 pounds F-4 (or 6 pounds F-5) filler per mixed gallon of binder.
5. Spread basecoat mixture onto surface by trowel to a thickness of 1/16”. Immediately lay the reinforcement fabric into the basecoat and press out all air pockets with a dry paint roller.
6. Saturate the reinforcement with a coat of catalyzed PermaRez 335 Resin (without powder). Roll out saturant coat until the whiteness of the reinforcement disappears.
7. After the saturated basecoat has dried, grind down any burrs that have appeared on the surface.
8. Spread topcoat mixture (PermaRez 335 with filler powder) with a steel trowel as evenly as possible to a thickness of 1/16”.
NOTE: Recoat time over saturant coat is normally 24 hours.
9. Before topcoat is allowed to dry, smooth with a paintbrush dipped lightly in PolySpec Smoothing Liquid #1.
10. Always wear gloves when using this product.

1 gal R: 2.0 oz H / DOC PR335-TDS

© Copyright 2017. All rights reserved. Published technical data and instructions are subject to change without notice. Please visit the online catalog at www.polyspec.com for the most current technical data and instructions. Or, you may contact your ITW Engineered Polymers representative for current technical data and instructions.

ITW Engineered Polymers warrants its products to be free from defects in material and workmanship. ITW’s sole obligation and Buyer’s exclusive remedy in connection with the products shall be limited, at ITW’s option, to either replacement of products not conforming to this warranty or credit to Buyer’s account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to ITW in writing within five days of Buyer’s discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer’s failure to notify ITW of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

ITW makes no other warranties concerning this product. No other warranties, either expressed or implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall ITW Engineered Polymers be liable for consequential or incidental damages.

Any recommendation or suggestion relating to the use of the products made by ITW, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use, and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment changes in procedures of use, or extrapolation of data may cause unsatisfactory results. ITW cannot guarantee that color will conform to sample, if provided.