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PRODUCT TECHNICAL DATA SHEET

BP-4 Primer/Adhesive/Coating

Main Description --- The BP-4 Primer/Adhesive system is a 100% solids epoxy coating for use below the water line. It is a solvent free, non-sag, formulation with excellent chemical and abrasion resistance that can withstand severe abuse. Kevlar® microfibers reinforce against hairline cracking and chipping. Bonds to concrete (wet and dry), fiberglass, wood, and steel surfaces. The use of a primer/adhesive promotes bonding between the composite and the substrate and adds to the corrosion barrier provided by Aquawrap®. When working in the splash zone or under water, this system is an excellent choice for use as a protective coating over a cured Aquawrap® installation. Color is light grey.

ATTENTION: All of the following data are based on laboratory conditions, at room temperature. Field conditions can radically change the characteristics of this product. Field testing is strongly recommended prior to application. Temperature can have a severe impact on cure times. Allow adequate time for application.

BP-4 System

Physical Properties			
Working (pot) Life:	90 min. at 21°C (70°F) 55-75 min. at 24°C (75°F)	**Mix Ratio:**	Factory Ratioed
Application Temps:	13-49°C (55-120°F)	**Service Temps:**	0-49°C (32 - 120°F)
Cure Time (dry to touch)**:**	8 hours at 21°C (70°F)	**Full Cure:**	7 days at 25°C (77°F)
Usual Packaging:	Factory Ratioed	**Shelf Life:**	1 year in sealed container
Compressive Strength:	10,000 psi. (ASTM D695)	**Flexural Strength:**	6,600 psi. (ASTM D790)
Tensile Strength:	4,800 psi. (ASTM D638)	**Hardness:**	91 Shore D (ASTM D2240)
Bond Strength:	Concrete – 100% Concrete Failure	**Water Absorption:**	2 hour boil time .10% (ASTM D570)
Elongation at Break:	40%	**Heat Distortion Temp:**	124° F (ASTM D649)

Chemical Resistance			
REAGENT ACIDS	**RATING**	**REAGENT ALKALIES**	**RATING**
Acetic 1-5%	2	Ammonium Hydroxide 1-26%	2
Chromic 1-5%	2	Calcium Chloride All	2
Citric All	2	Calcium Hypochlorite 1-15%	2
Hydrochloric All	2	Caustic Soda	2
Lactic 1-10%	2	Caustic Potash	2
Nitric 1-5%	2	Sodium Hydroxide All	2
Oxalic 1-20%	2	Sodium Sulfide 1-30%	2
Phosphoric All	2		
Sulfuric 1-75%	2		
(2 = intermittent immersion. 8 hours with 8 hours dry time)			

Surface Preparation

Surface to be coated must be clean and free of oils, grease, and loose contamination. Any filler material used to contour surface anomalies must be sanded and abraded to provide good adhesion.

Application

Mix the BP-4 components thoroughly by hand or with a mechanical mixer. Normal mixing procedure is to pour the contents of Part B into the Part A container and blend. Pot life from this point is approximately 55-75 minutes at 75° F. Do not leave mixed contents in a closed container. Apply immediately.

Application is most facilitated by using some type of mitt or glove. The viscosity of the mixed product is approximately 1,250 cps. This heavy mixture allows the product to be easily applied underwater without floating away. A spreader may also be used if conditions warrant.

Minimum application thickness shall be 40 mils. Average of 50 sq. ft per gallon. Use 25 sq. ft. per gallon if applying below the water line.

Transport

BP-4 Primer/Adhesive is non-regulated by the USDOT, IATA and IMO and may ship non-hazardous.

Storage & Handling – Store at 50-80° F in a dry place. Keep any leftover material in a tightly sealed container. Always use clean, dry tools when mixing or applying the matrix. Mix ratios are generally pre-determined and packaged accordingly. Normal mixing procedure is to pour the contents of the Part B container into the Part A container and mix thoroughly. Use immediately. Mixtures left in containers can obtain dangerous temperatures during cure and can cause damage to the container and surrounding items.

CAUTION: Some persons may be irritated by these compounds. Use caution and PPE. See MSDS. FOR INDUSTRIAL USE BY PROFESSIONALLY TRAINED PERSONNEL ONLY.

ABSTRACT OF WARRANTY: There is no warranty, express or implied, with respect to this product or any of its properties or applications. All of the data printed on this Technical Data Sheet is approximate and may not apply to your situation. Field-Applied Composite Systems LLC liability with respect to the use and or application of this product is strictly limited to the replacement costs of any product shown to be defective by laboratory testing. See our full Terms and Conditions for the actual warranty and terms of sale.

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