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PRODUCT TECHNICAL DATA SHEET

Aquawrap® Primer/Adhesive Systems

A wide range of primer/adhesive systems are available for use with Aquawrap®. In some cases these systems may also be used as a high compressive-strength filler material. These systems are useful when wrapping metallic, plastic, or concrete piping and structures. The use of a primer/adhesive promotes bonding between the composite and the substrate and adds to the corrosion barrier provided by Aquawrap®. All of the following systems ship DOT non-hazardous.

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.

BP-1 System

A two-component polyurethane based system designed for general use. BP-1 contains glass fibers for additional strength. It works well with steel, stainless steel, aluminum, copper, wood, and concrete. It may also be used on some plastics such as PVC, polyethylenes, and fiberglass.

Working (pot) Life:	45 min. at 25°C (77°F)	Mix Ratio:	Factory Ratioed
Application Temps:	0-38°C (33-100°F)	Service Temps:	-17-121°C (0 - 250°F)
Cure Time (dry to touch):	60 min. at 25°C (77°F)	Full Cure :	2 days at 25°C (77°F)
Usual Packaging:	Factory Ratioed	Shelf Life:	1 year in sealed jar
Bond Strength:	Metals 1000 psi	Concrete 225 psi	Wood 500 psi Plastic 350 psi

BP-2 System

A one-component urethane based system specifically intended to bond uncured Aquawrap® to cured Aquawrap® surfaces. It is designed for use in heavy Aquawrap® lay-ups where all of the layers are unable to be applied at the same time.

Working (pot) Life:	120 min. at 25°C (77°F)	Mix Ratio:	Single Component
Application Temps:	0-38°C (33-100°F)	Service Temps:	-17-121°C (0 - 250°F)
Cure Time (dry to touch):	120 min. 25°C (77°F)	Full Cure :	2 days at 25°C (77°F)
Usual Packaging:	Factory Ratioed	Shelf Life:	1 year in sealed jar
Bond Strength:	Metals 700 psi	Concrete N/R	Wood 350 psi Plastic N/R

ATTENTION: No representation is made as to the accuracy or correctness of the information contained herein, other than to state that it is presented by this organization in good faith and we believe it to be correct and accurate per the limits of our understanding and training as of the date of first publication. The user or handler of this product is warned to take the most conservative and safest interpretation possible of all information contained herein and to use the most extreme personal protection measures and exposure limitations prudently dictated by the specific usage or handling situation, this product's MSDS information and good industrial safety and hygiene practices.

BP-3 System

A one-component polyurethane based system designed for general use. It is solvent free and quick setting. It works well with steel, stainless steel, aluminum, copper, wood, concrete and most plastic parent materials. Can be used as an alternate to BP-1 where lower bond strength is acceptable.

Working (pot) Life:	20 min. at 25°C (77°F)	Mix Ratio:	Single Component	
Application Temps:	5-35°C (44-95°F)	Service Temps:	30-100°C (-22 - 212°F)	
Cure Time (dry to touch):	30 min. 25°C (77°F)	Full Cure :	24 hours at 25°C (77°F)	
Usual Packaging:	Bottles	Shelf Life:	1 year in sealed jar	
Bond Strength:	Metals 700 psi	Concrete N/R	Wood 350 psi	Plastic N/R

BP-4 System

A two-component epoxy based system designed specifically for underwater applications where concrete is the parent material. It is a solvent-free, non-sag formulation with excellent chemical and abrasion resistance. Kevlar® microfibers reinforce against hairline cracking and chipping. 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.

Working (pot) Life:	30-40 min. at 25°C (77°F)	Mix Ratio:	Factory Ratioed	
Application Temps:	19-85°C (65-185°F)	Service Temps:	0-163°C (32 - 325°F)	
Cure Time (dry to touch):	90 min. 25°C (77°F)	Full Cure :	7 days at 25°C (77°F)	
Usual Packaging:	Factory Ratioed	Shelf Life:	1 year in sealed jar	
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)	

BP-10 System

A two-component epoxy based system designed specifically for use as a high strength filler and bonder. It contains a unique blend of liquid epoxy polymer and aliphatic polyamine curing agents. Kevlar® fibers are incorporated for reinforcement and viscosity management. It can be used on any steel surface with proper preparation. Works well above and below water where steel is the parent material. Can be sanded smooth after curing.

Working (pot) Life:	40 min. at 25°C (77°F)	Mix Ratio:	1:1 by volume	
Application Temps:	19-85°C (65-185°F)	Service Temps:	0-163°C (32 - 325°F)	
Cure Time (dry to touch):	4 hours 25°C (77°F)	Full Cure :	14-36 hours at 25°C (77°F)	
Usual Packaging:	Gallon Kits	Shelf Life:	1 year in sealed jar	

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.

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