

## **Brushable Ceramic White**

None

Description: Intended Use: A brushable, high-performance, ceramic-filled epoxy for sealing, protecting, and repairing surfaces subject to erosion, corrosion, and wear

Protect pump casings, impeller blades, gate valves, water boxes, and fan blades; rebuild heat exchangers, tube sheets, and other water circulating equipment; top coat on repaired surfaces; seal and protect new equipment exposed to erosion and corrosion

Product features: Excellent chemical resistance Temperature resistance to 350°F Applies easily with short-bristle brush or roller Low viscosity, self-leveling liquid Acceptable for use in meat and poultry plants NSF® Approved (Certified to ANSI/NSF61)

## Limitations:

Typical Physical Properties: Technical data should be considered representative or typical only and should not be used for specification purposes.

Cured 7 days @ 75° F					
Adhesive Tensile Shear					
Brush Coat Thickness					
Coefficient of Thermal Expansion					
Color					
Compresive Strength					
Coverage/lb					
Cured Hardness					
Cured Shrinkage					
Dielectric Constant					
Flexural Strength					
Functional Cure					
Mix Ratio by Volume					
Mix Ratio by Weight					
Mixed Viscosity					
Pot Life @ 75F					
Recoat Time					
Salt Spray Resistance					
Solids by Volume					
Specific Gravity					
Specific Volume					
Temperature Resistance					

2,000 psi 10-20 mils (.010 - .020 in.) 27.5 [(in)x(in)x°F)]x10(-6) White 13,200 psi 7.6 sq.ft./lb. @ 15 mils(.015 i 84D 0.0020 in./in. 3.87 @ 1 MHz 8.000 psi 16 hrs. 5.6:1 8.5:1 40,000 cps 21 min. 4-6 hrs. 5.000 hrs. 100 1.53 gm/cc 16.5 in.(3)/lb. Wet 150°F

## TESTS CONDUCTED

Coef. of Thermal Expansion ASTM D 696 Cure Shrinkage ASTM D 2566 Dielectric Strength, volts/mil ASTM D 149 Modulus of Elasticity ASTM D 638 Cured Hardness Shore D ASTM D 2240 Adhesive Tensile Shear ASTM D 1002 Compressive Strength ASTM D 1002 Dielectric Constant ASTM D 150 Flexural Strength ASTM D 790 Thermal Conductivity ASTM C 177

## Surface Preparation:

1. Thoroughly clean the surface with Devcon® Cleaner Blend 300 to remove all oil, grease and dirt.

2. Grit blast surface area with 8-40 mesh grit, or grind with a coarse wheel or abrasive disc pad, to create increased surface area for better adhesion (Caution: An abrasive disc pad can only be used provided white metal is revealed). Desired profile is 3-5mil, including defined edges (do not "feather-edge" epoxy).

Note: For metals exposed to sea water or other salt solution, grit-blast and high-pressure-water-blast the area, then leave overnight to allow any salts in the metal to "sweat" to the surface. Repeat blasting to "sweat out" all soluble salts. Perform chloride contamination test to determine soluble salt content (should be no more than 40ppm).

3. Clean surface again with Devcon® Cleaner Blend 300 to remove all traces of oil, grease, dust or other foreign substances from the grit blasting.

4. Repair surface as soon as possible to eliminate any changes or surface contaminants.

	WORKING CONDITIONS: Ideal application temperature is 55°F to 90°F. In cold working conditions, directly heat repair area to100-110°F prior to applying epoxy and maintain at this temperature during product cure to dry off any moisture, contamination or solvents, as well as to achieve maximum performance properties.				
Mixing Instructions:	It is strongly recommended that full units be mixed, as ratios are pre-measured				
	<ol> <li>Add hardener to resin</li> <li>Mix thoroughly with screwdriver or similar tool (continuously scrape material away from sides and bottom of container) until a uniform, streak-free consistency is obtained.</li> </ol>				
	LARGE SIZES (3 lb, 4 lb, 25 lb): Use a propeller-type Jiffy Mixer on an electric drill. Use model HS-1 for 3 lb and 4 lb k Use model ES for 25 lb kit. Mix until color is uniform and consistent.				
	Note: Keep propeller below liquid line, as additional air can be added to mixture, resulting in air bubbles on the s the finished product.				
Application Instructions:	Apply two thin coats (8-15 mils) of Brushable Ceramic to ensure a lack of pinholes or holidays on the substrate (a low voltage, holiday detector will ensure a pinhole-free coating). Brushable Ceramic fully cures in 16 hours, at which time it can be machined, drilled or painted.				
	FOR GREATER THICKNESS Use Brushable Ceramic as a coating in combination with Ceramic Repair Putty. For proper wear and adhesion, maximum thickness should not exceed 40 mils.				
	FOR ± 70°F APPLICATIONS Applying epoxy at temperatures below 70°F lengthens functional cure and pot life times. Conversely, applying above 70°F shortens functional cure and pot life.				
Storage:	Store at room temperature, 70 °F.				
Compliances:	NSF-certified for potable water applications For NSF certification a cure time of 7 days is required. Approved for use in meat and poultry processing plants				
Chemical	Chemical resistance is calculated	with a 7 day, room tem	np. cure (30 days immersion) @ 75°F)		
Resistance:	Benzene	Excellent	Sodium Hydroxide 10%	Excellent	
	Gasoline (Unleaded)	Excellent	Sodium Hydroxide 50%	Excellent	
	Hydrochloric 10%	Very good	Sodium Hypochlorite	Very good	
	Kerosene	Excellent	Sulfuric 10%	Very good	
	Mineral Spirits	Excellent	Sulfuric 50%	Fair	
	Nitric 50%	Poor	Toluene	Excellent	
	Phosphoric 10%	Very good	Xylene	Fair	
	Potassium Hydroxide 40%	Excellent			
Precautions:	autions: Please refer to the appropriate safety data sheet (SDS) prior to using this product.				
	For technical assistance, pleas FOR INDUSTRIAL USE ONL	e call 1-855-489-7262			
Warranty:	ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.				
Disclaimer:	All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.				
Order Information:	11770 2 lb.				