

Brushable Ceramic Blue or Red

Description:	A brushable, high performance ceramic-filled epoxy for sealing, protecting and repairing surfaces subject to erosion, corrosion and wear.					
Intended Use:	Industrial Use: 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					
Features:	Excellent chemical resistance Temperature resistance to 350°F (177°C) Applies easily with short-bristle brush or roller Low viscosity, self-leveling liquid Brushable Ceramic Red (not Blue) is approved for use in meat and poultry plants					
Limitations:	Suitability of product is determined by the end user for their application and process.					
Typical Physical Properties:	Technical data should be considered representative Cured 7 Days @ 75°F (24°C) Adhesive Tensile Shear Brush Coat Thickness Coefficient of Thermal Expansion (x10-6) Compressive Strength Coverage (0.015 in / 0.38mm) Cured Hardness Cured Shrinkage Dielectric Constant Flexural Strength Salt Spray Resistance Solids by Volume Specific Volume Temperature Resistance Uncured Properties @ 72°F (23°C) Color Hard Dry Mix Ratio by Volume Mix Ratio by Weight Mixed Viscosity Pot Life	Typical Values 2,000 psi (13.8 MPa) 10-20 mils (0.254-0.58 mm) 27.5 in/in.°F (49.5 cm/cm.°C) 13,200 psi (91 MPa) 7.6 ft2/lb (1.56 M2/kg) 86 D 0.0020 in/in (0.0020 cm/cm) 3.87 @ 1 MHz 8,000 psi (55 MPa) 5,000 hrs 100% 16.5 in3/lb (0.596 cm3/g) Wet: 302°F (150°C), Dry 350°F (177°C) Blue or Red 6 hrs 3.4:1 5.6:1 32,000 cP 40 min	ation purposes. Standard Tests Adhesive Tensile Shear ASTM D 1002 Compressive Strength ASTM D 695 CTE ASTM D 696 Cure Shrinkage ASTM D 2566 Dielectric Constant ASTM D 150 Flexural Strength ASTM D 790 Hardness Shore D ASTM D 2240			
	Recoat Time Density	1-6 hrs. 12.77 lb/Gal (1.53 g/cm3)				
Surface Preparation:	 Thoroughly clean the surface with Devcon® Cleaner Blend 300 or any appropriate non residual solvent cleaner eg. Acetone, MEK to remove all oil, grease and dirt. Grit blast surface area following at least ISO 8501 SA 2 ½ (Very Thorough Blast Cleaning) and or SSPC-SP 10 (Near White Metal). When grit blasting is not possible the surface may be prepared following SSPC-SP 3 until at least "Condition A" is achieved. The required surface profile depth is 3-5 mils (75-125µm). 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. The salt contaminamination level is recommended to not exceed 20mg/m² (2µg/cm²). Clean surface again with Devcon® Cleaner Blend 300 or any appropriate non residual solvent cleaner eg. Acetone, MEK. To remove all traces of oil, grease, dust or other foreign substances from the substrate. Dust contamination level should not exceed 12 prior coating applications in accordance to ISO 8502-3. Repair surface as soon as possible to eliminate any changes or surface contaminants. WORKING CONDITIONS: Ideal application temperature is 55°F to 90°F (13- 32°C). In cold working product cure to dry off any moisture, contamination or solvents, as well as to achieve maximum performance properties. It's not recommended to apply the product when the temperature of the substrate is less than 5°F (3°C) above the Dewpoint, or the Relative Humidity is higher than 85%. 					
Mixing Instructions:	It is strongly recommended that full units be mixed, as ratios are pre-measured					
	 Add hardener to resin Mix thoroughly with a spatula or similar tool (continuously scrape material away from sides and bottom of container) until a uniform, streak-free consistency is obtained. 					
Application Instructions:	Brushable Ceramic is recommended to be applied in two coatings of each 12-20 mils (300-500µm). To ensure that the surface is completely covered and free from holidays or voids. It is recommended that after the application of the second coating the surface should be checked to ensure that is free from voids and gaps, which if inside of the recoat window can be easily repaired by application of an extra coating over the faulty area. INSPECTIONS AND REPAIR Brushable Ceramic will reach the Hard Dry within 6 hours when should be checked for pinholes and voids following NACE SP0188 to asure coating continuity using appropriated Holiday detector, with a voltage that should not exceed 4V/µm. For "Touch-Ups" and repairs outside of the recoating window it's recommended to reactivate the surface of the coating with a					
	fallback area of 1in (2.5cm) of diameter, by sweep blasting or abrading to produce a gloss free surface and with a profile of 1-1.5mils (25-40 μ m).					

	FOR GREATER THICKNESS Use Brushable Ceramic as a c thickness should not exceed 4	nd adhesion, maximum				
	FOR ± 70°F (21°C) APPLICATIONS Applying epoxy at temperatures below 70°F0 (21°C) lengthens functional cure and pot life times. Conversely, applying above 70°F shortens functional cure and pot life.					
Storage:	Shelf life 3 yrs from manufacture. See package label. Store at room temperature, 70 °F (21°C)					
Compliances:	Brushable Ceramic Red is approved for use in meat and poultry plants.					
Chemical	Chemical Resistance perfromed with 7 day, room temp. cure (30 days immersion) @ 300°F (150°C)					
Resistance:	Benzene	Excellent	Sodium Hydroxide 10%	Excellent		
	Gasoline (Unleaded)	Excellent	Sodium Hydroxide 50%	Very Good		
	Hydrochloric 10%	Very Good	Sodium Hypochlorite 10%	Excellent		
	Kerosene	Excellent	Sulfuric 10%	Excellent		
	Mineral Spirits	Excellent	Sulfuric 50%	Fair		
	Nitric 50%	Poor	Toluene	Excellent		
	Phosphoric 10%	Fair	Xylene	Excellent		
	Potassium Hydroxide 40%	Very Good	Crude Oil	Excellent		
Precautions:	FOR INDUSTRIAL USE ONLY	: Please refer to the appro	priate Safety Data Sheet prior to using thi	s product.		
Warranty:	ITW Performance Polymers wi control, we can accept no liabil		Id to be defective. Because the storage, h	andling and application of this r	material is beyond our	
Order Information:	EMEA 11762 - Blue 500g 11763 - Blue 5Kg 11752 - Red 500g		US 11765 - Blue 2lb 11767 - Blue 12lb 11760 - Red 2lb	11765 - Blue 2lb 11767 - Blue 12lb		
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