

Devcon Brushable Ceramic - Red, Blue Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Precision Repair EpoxyComments: Low-viscosity, alumina-filled, brushable epoxy compound, when applied to a 15-20 mil coating, provides a smooth, protective barrier against wear, abrasion, corrosion, erosion and chemical attack. Temperature range up to 350°F. White is NSF-certified for use in potable water applications. Low friction surface reduces turbulence, wear and cavitations. Red and white formulas are USDA-approved. Outstanding chemical resistance to acids, solvents and alkalis.Data provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-Brushable-Ceramic-Red-Blue-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0606 lb/in ³	
Viscosity	32000 cP	32000 cP	with hardener

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	ASTM D2240
Tensile Strength, Ultimate	26.2 MPa	3800 psi	ASTM D638
Modulus of Elasticity	6.21 GPa	900 ksi	In Tension; ASTM D638
Flexural Yield Strength	55.2 MPa	8000 psi	ASTM D790
Compressive Yield Strength	105 MPa	15200 psi	ASTM D695
Adhesive Bond Strength	13.8 MPa	2000 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	34.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	18.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.803 W/m-K	5.57 BTU-in/hr-ft ² -°F	ASTM C177
Maximum Service Temperature, Air	177 °C	350 °F	Operating Temperature
Shrinkage	0.20 %	0.20 %	During Cure; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	38.7	38.7	ASTM D150
Dielectric Strength	15.0 kV/mm	382 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 °C	70.0 °F	
Pot Life	40.0 min	40.0 min	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Coverage per lb.	66 in ²	at 1/4 inch thick
Mix Ratio by Volume	3.4 to 1	resin:hardener
Mix Ratio By Weight	5.6 to 1	resin:hardener

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