

Devcon Underwater Repair Putty (UW) Epoxy

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

Material Notes:

Emergency Repair ProductsComments: High-performance technology for repairing, patching and rebuilding equipment in habitually wet environments, even under water. Eliminates the need for substrate to be thoroughly dry before repairs. Invaluable for use in pulp and paper mills, wastewater treatment plants, and marine environments. Penetrates wetness to bond securely to steel, iron, aluminum, brass, bronze, concrete, wood, and some plastics. Non-rusting; easy to mix and apply. Cures in temperatures down to 40°F. Data provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-Underwater-Repair-Putty-UW-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0588 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	ASTM D2240
Tensile Strength, Ultimate	19.0 MPa	2760 psi	ASTM D638
Modulus of Elasticity	5.17 GPa	750 ksi	In Tension; ASTM D638
Flexural Yield Strength	34.4 MPa	4990 psi	ASTM D790
Compressive Yield Strength	38.78 MPa	5625 psi	ASTM D695
Adhesive Bond Strength	18.51 MPa	2685 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	32.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	17.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.590 W/m-K	4.09 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Maximum Service Temperature, Air	93.3 $^{\circ}\text{C}$	200 $^{\circ}\text{F}$	Operating Temperature
Shrinkage	0.20 %	0.20 %	During Cure; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	8.6	8.6	ASTM D150
Dielectric Strength	5.91 kV/mm	150 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	>= 4.44 °C	>= 40.0 °F	
Pot Life	45.0 min	45.0 min	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Coverage per lb.	68 in²	at 1/4 inch thick
Mix Ratio by Volume	1 to 1	resin:hardener
Mix Ratio By Weight	1.4 to 1	resin:hardener

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