

Devcon Ceramic Repair Compound

Epoxy; Epoxide

Devcon

Message:

A high performance, trowelable, ceramic-filled epoxy for rebuilding worn or damaged equipment.

Intended Use:

Rebuild worn pump casings and suction plates; repair tube sheets, heat exchangers and other circulating water equipment; restore worn chutes and hoppers; repair and rebuild butterfly and gate valves.

Product features:

Excellent chemical resistance

Resists corrosion, erosion and cavitation

Non-sagging, creamy putty

General Information			
Filler / Reinforcement	Ceramic fiber filler		
Features	Good corrosion resistance		
	Good chemical resistance		
Uses	Repair Materials		
Appearance	Blue		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	
Specific Volume	0.647	cm ³ /g	
Solid content-by Volume	100	%	
Temperature Resistance			
Dry	177	°C	
Wet	66	°C	
Tensile Shear Adhesion	15.4	MPa	ASTM D1002
Molding Shrinkage - Flow	0.24	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5580	MPa	ASTM D638
Flexural Strength	40.5	MPa	ASTM D790
Compressive Strength	70.6	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.72	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	14	kV/mm	ASTM D149
Dielectric Constant	38.0		ASTM D150
Thermoset	Nominal Value	Unit	Test Method

Thermoset Components			
Mixing ratio by weight: 4.7			
Component a			
Mixing ratio by capacity: 3.3			
Mixing ratio by weight: 1.0			
Component B			
Mixing ratio by capacity: 1.0			
Pot Life (24°C)	45	min	
Additional Information	Nominal Value	Unit	Test Method
Cured 7 days @ 75°F			
Uncured Properties	Nominal Value	Unit	Test Method
Curing Time	16	hr	

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