

Devcon High Performance Backing Compound

Epoxy; Epoxide

Devcon

Message:

High-strength liquid epoxy with the necessary resiliency and strength to withstand forces generated by crushers and mills.

Intended Use:

Rod, ball, pebble, and autogenous mills; cone and gyratory crushers

Product Features:

100% solids - no solvents

High compression and impact strength

Negligible shrink

Easy to pour; easy to use

Low exothermic reaction

General Information			
Features	Low Exotherm		
	High strength		
	Impact resistance, high		
	Good compressive strength		
	Low shrinkage		
	Elastic		
Appearance	Red		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	
Specific Volume	0.621	cm ³ /g	
Solid content-by Volume	100	%	
Temperature Resistance	121	°C	
Tensile Shear Adhesion	7.58	MPa	ASTM D1002
Molding Shrinkage - Flow	0.060	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6550	MPa	ASTM D638
Tensile Strength	53.0	MPa	ASTM D638
Flexural Strength	79.3	MPa	ASTM D790
Compressive Strength	130	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	69.4	J/m	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method

Thermoset Components			
Mixing ratio by weight: 100			
Component a			
Mixing ratio by capacity: 10			
Mixing ratio by weight: 5.9			
Component B			
Mixing ratio by capacity: 1.0			
Pot Life (24°C)	56	min	
Thermoset Mix Viscosity	10300	cP	
Additional Information	Nominal Value	Unit	Test Method
Cured 7 days @ 75°F			
Uncured Properties	Nominal Value	Unit	Test Method
Curing Time	8.0	hr	

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