

Devcon Wear Guard™ High Temp 450

Epoxy; Epoxide

Devcon

Message:

High-density, ceramic bead-filled epoxy system for maximum wear and abrasion resistance in high-temperature applications

Intended Use:

Repair scrubbers, ash handling systems, pipe elbows, screens, and chutes; recontour chippers, bins, hoppers, bunkers, separators, diester tables; protect exhausters, chutes, launderers, housing fans, crushers, and breakers.

Product Features:

Provides up to 30% better abrasion resistance than conventional wear compounds

Unmatched resistance to acids, bases, salts, and solvents

Serves temperatures to 450°F

Excellent adhesion to metal, ceramic, and concrete

General Information			
Filler / Reinforcement	Ceramic bead packing		
Features	High density		
	Solvent resistance		
	Good wear resistance		
	Good adhesion		
	alkali resistance		
	Good wear resistance		
	acid resistance		
Uses	Repair Materials		
Appearance	Grey		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.94	g/cm³	
Specific Volume	0.517	cm³/g	
Solid content-by Volume	100	%	
Temperature Resistance			
Dry	232	°C	
Wet	66	°C	
Tensile Shear Adhesion	15.9	MPa	ASTM D1002
Molding Shrinkage - Flow	0.10	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	31.7	MPa	
Flexural Strength	56.7	MPa	ASTM D790
Compressive Strength	91.0	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	4.9E-5	cm/cm/°C	ASTM D696


Electrical	Nominal Value		Test Method
Dielectric Constant	38.0		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components	Mixing ratio by weight: 14		
Component a	Mixing ratio by capacity: 6.0		
	Mixing ratio by weight: 1.0		
Component B	Mixing ratio by capacity: 1.0		
Pot Life (24°C)	120	min	
Additional Information	Nominal Value	Unit	Test Method
Cured 7 days @ 75°F			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT