

# Devcon Wear Guard™ High Impact

Epoxy; Epoxide

Devcon

## Message:

High density, micro alumina ceramic bead-filled epoxy system with urethane acrylate for superior impact abrasion used for protecting equipment against tremendous impact and flex.

Intended Use:

High impact applications in pumps, scrubbers, screens, chutes, handling equipment and screw conveyers

Product Features:

Extremely wear resistant

Non-sagging putty, creamy paste

High compression and impact strength

Serves temperatures to 300°F

General Information			
Filler / Reinforcement	Ceramic bead packing		
Features	High density		
	Impact resistance, high		
	Good compressive strength		
	Good wear resistance		
Appearance	Dark gray		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.23	g/cm <sup>3</sup>	
Specific Volume	0.448	cm <sup>3</sup> /g	
Solid content-by Volume	100	%	
Temperature Resistance			
Dry	149	°C	
Wet	60	°C	
Tensile Shear Adhesion	17.7	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 Strength	29.1	MPa	
Flexural Strength	42.4	MPa	ASTM D790
Compressive Strength	50.0	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value		Test Method
Dielectric Constant	46.0		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Mixing ratio by weight: 2.5

Component a

Mixing ratio by capacity: 2.5

Mixing ratio by weight: 1.0

Component B

Mixing ratio by capacity: 1.0

Pot Life (24°C)	30	min
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Additional Information	Nominal Value	Unit	Test Method
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Cured 7 days @ 75°F

Uncured Properties	Nominal Value	Unit	Test Method
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Curing Time	16	hr
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#### 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

