

STAR Technology

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ER2160

Abrasion Resistant Coating

DESCRIPTION

ER2160 is a silicon carbide filled, room temperature curing surface coat used to produce an abrasion resistant surface. ER2160 has a creamy consistency, which makes it easy to apply without sag or run off on vertical surfaces and over sharp radii. When choosing any surface coat, consideration should be given to tool size, configuration, build method, and final use. Surface coat thickness of 0.030" is considered average for room temperature applications. Typical applications for ER2160 include pump casings, bins, silos, impellers and blades.

BENEFITS:

Room Temperature Cure	Corrosion Resistant
Chemical Resistant	Brush Application

TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Mix Ratio (by weight):		100A: 14.5B
Viscosity (cps):		
Part A:	ASTM D2393	700,000
Part B:	ASTM D2393	100
Density (g/cm ³):		
Part A:	ASTM D1475	2.00
Part B:	ASTM D1475	1.01
Mixed:	ASTM D1475	1.77
Color:		
Part A:		Black
Part B:		Clear
Mixed:		Black
Lap Shears (lbs):	ASTM D1002	
Al to Al		424
CRS to CRS:		2577
Compressive Strength (psi):		12,158
Flexural Strength (lbs):		43
Tensile (psi):		2398
Dielectric Constant:		.0122
Dielectric Strength (v/mil):		65
Dissipation Factor:		6.2
Shore D Hardness:	ASTM D2240	85
Taber Abrasion [1Kg,1000 Cycles, CS-17](Loss mm ³)		19.89
Gel Time [200 g mass] (minutes):		100
Cure Time [After Gel] [70°C] (hours):		4
Room Temperature Cure Time (days):		7



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APPLICATION PROCEDURES

Carefully weigh out appropriate amounts of resin and hardener into a clean mixing container and thoroughly mix until all streaks and striations are gone. Scrape the sides and bottom frequently to ensure complete mixing.

CAUTION: Unmixed compound from the sides or bottom of the container can cause soft spots or uncured areas in the completed piece. To prevent this, transfer the entire mixed contents to a second clean container and remix for a short time before using.

PRECAUTIONS

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

RESIN AND HARDENER WARNING STATEMENT

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.