

Chesterton ARC MX2 High Wear Fine Particle Wear Compound

Category : Ceramic , Polymer , Thermoset , Epoxy

Material Notes:

Description: An advanced ceramic composite for the repair and protection of all metal surfaces subjected to severe erosion, corrosion and chemical attack. It is applied at a thickness of 3 mm (1/8") or more. Non-Shrinking, 100% solids. ARC MX2 is formulated with a high concentration of ceramic beads and fine ceramic particles for extremely abrasive environments where metal loss is often repaired by more conventional and costly weld overlay. ARC MX2 is a long lasting wear resistant surface which frequently outperforms the original metal, rubber liners, ceramic tiles or weld overlay. ARC MX2 is a long lasting wear resistant surface and is chosen over the ARC Composites where risk of dark contamination is critical. **Benefits:** Excellent wear characteristics of ARC MX2 extend equipment operating cycles. Tough resin structures resist thermal-mechanical shock Outstanding adhesion results in reliable performance with no undercutting Ease of application reduces labor and downtime costs It can be easily shaped and formed to any metal surface. Suggested

Uses: Cyclones Hydrosparators Hopper Bins Pulp Dewatering Screws Wear Plates Porcelain manufacturing equipment Stock Pumps Ball Mills Cleaner Cones Pipe Elbows Pulverizers. Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-MX2-High-Wear-Fine-Particle-Wear-Compound.php

Physical Properties	Metric	English	Comments
Density	2.40 g/cc	0.0867 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	
Hardness, Shore D	90	90	ASTM D2240
Tensile Strength at Break	28.3 MPa	4100 psi	ASTM D638
Flexural Strength	51.7 MPa	7500 psi	ASTM D790
Compressive Strength	90.3 MPa	13100 psi	ASTM D695
Impact Test	7.91 J	5.83 ft-lb	Reverse; ASTM D2794

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	95.0 °C	203 °F	Wet Service
	205 °C	401 °F	Dry Service

Processing Properties	Metric	English	Comments
Cure Time	19.8 min	0.330 hour	Tack Free
	@Temperature 43.0 °C	@Temperature 109 °F	

Processing Properties	90.0 min Metric	1.50 hour English	Comments
	@Temperature 43.0 °C	@Temperature 109 °F	
	120 min	2.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	240 min	4.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	360 min	6.00 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	420 min	7.00 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	480 min	8.00 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	720 min	12.0 hour	Full Load
	@Temperature 43.0 °C	@Temperature 109 °F	
	960 min	16.0 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	1200 min	20.0 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1440 min	24.0 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	1440 min	24.0 hour	Full Chemical
	@Temperature 43.0 °C	@Temperature 109 °F	
	1800 min	30.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	2160 min	36.0 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	2160 min	36.0 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2880 min	48.0 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	2880 min	48.0 hour	

Processing Properties	Metric @ Temperature 25.0 °C	English @ Temperature 77.0 °F	Full Chemical Comments
	4320 min	72.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	4320 min	72.0 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	5760 min	96.0 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	White	

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