

Chesterton ARC MX1 Vertical Build Extreme 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, abrasion and chemical attack. It is applied at a thickness of 6 mm (1/4") or more. Non-Shrinking, 100% solids. ARC MX1 is formulated with a high concentration of ceramic beads and fine ceramic particles for extremely abrasive environments where superior protection is desirable. ARC MX1 is applied to a primed surface by trowel or it may be molded where close tolerances and a smooth finish are necessary. It is chosen over ARC 890 and 897 when increased abrasion protection is required. **Benefits:** Outlasts other wear resistant materials and coatings by 5-7 times. Excellent wear characteristics extend equipments' operating cycles. Outwears weld overlay or ceramic tiles. Tough resin structure resists thermal-mechanical shock. May be molded to precise dimensions for critical tolerances. Performs well under fluctuating chemical environments. **Suggested Uses:** Pulverizers, Dredge Pumps, Hoppers and Silos, Tile Lined Conveyor Screws, CD4/Ni-Hard/Hordox Slurry pumps and pipe Elbows, Fans/Blowers/Cyclones, Transport Pipelines for Abrasives, Metal Clad Exhaust Fan Housing, Ceramic Tile Lined Chutes, Ceramic Tile or Rubber Lined Deflector Hoods. Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-MX1-Vertical-Build-Extreme-Wear-Compound.php

Physical Properties	Metric	English	Comments
Density	2.70 g/cc	0.0975 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	ASTM D2240
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM D638
Flexural Strength	47.6 MPa	6900 psi	ASTM D790
Compressive Strength	110 MPa	16000 psi	ASTM D695
Impact Test	9.04 J	6.67 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	60.0 min	1.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	120 min	2.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric 150 min	English 2.50 hour	Comments
	@Temperature 32.0 °C	@Temperature 89.6 °F	Light Load
	180 min	3.00 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	210 min	3.50 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	300 min	5.00 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	420 min	7.00 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	540 min	9.00 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	960 min	16.0 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1200 min	20.0 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1980 min	33.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	2160 min	36.0 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	2400 min	40.0 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2880 min	48.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	4800 min	80.0 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	6480 min	108 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	Blue	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China