

## Chesterton ARC MXC Castable Extreme Wear Compound

Category : Ceramic , Polymer , Thermoset , Epoxy

### Material Notes:

**Description:** An advanced ceramic composite, with flowable viscosity, for the repair and protection of all metal surfaces subjected to severe erosion, abrasion and chemical attack. It can be hand troweled on horizontal surfaces at a minimum thickness of 6 mm as well as poured into casting applications at minimum thickness of 9 mm (3/8") or more. Non-shrinking, 100% solids. ARC MXC is formulated with a high concentration of ceramic beads and fine ceramic particles for extremely abrasive environments where superior protection is desirable. ARC MXC may be molded where close tolerances in application and a smooth finish are necessary, or where accessibility is limited.

**Benefits:** Lowered viscosity allows it to be molded to precise dimensions for critical tolerances. Excellent wear characteristics extend equipment's operating cycles. Tough resin structure resists thermal-mechanical shock. Performs well under fluctuation chemical environments.

**Suggested Uses:** Exit Cones, Transport Pipelines for Abrasive Material, Hoppers and Silos, Cyclones, Ceramic Tile Lined Chutes, Slurry Pumps and Pipe Elbows. Information provided by Chesterton

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chesterton-ARC-MXC-Castable-Extreme-Wear-Compound.php](http://www.lookpolymers.com/polymer_Chesterton-ARC-MXC-Castable-Extreme-Wear-Compound.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	ASTM D2240
Tensile Strength at Break	29.0 MPa	4200 psi	ASTM D638
Elongation at Break	0.10 %	0.10 %	ASTM D638
Flexural Strength	40.7 MPa	5900 psi	ASTM D790
Flexural Modulus	4.83 GPa	701 ksi	ASTM D790
Compressive Strength	1100 MPa	159000 psi	ASTM D695
Adhesive Bond Strength	16.9 MPa	2450 psi	ASTM D4541
Impact Test	9.04 J	6.67 ft-lb	Direct; 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

Processing Properties	Metric @ Temperature 32.0 °C	English @ Temperature 89.6 °F	Comments
	<b>120 min</b>	<b>2.00 hour</b>	<b>Tack Free</b>
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	<b>150 min</b>	<b>2.50 hour</b>	<b>Light Load</b>
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	<b>180 min</b>	<b>3.00 hour</b>	<b>Tack Free</b>
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	<b>210 min</b>	<b>3.50 hour</b>	<b>Light Load</b>
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	<b>300 min</b>	<b>5.00 hour</b>	<b>Tack Free</b>
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	<b>420 min</b>	<b>7.00 hour</b>	<b>Light Load</b>
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	<b>540 min</b>	<b>9.00 hour</b>	<b>Light Load</b>
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	<b>960 min</b>	<b>16.0 hour</b>	<b>Full Load</b>
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	<b>1200 min</b>	<b>20.0 hour</b>	<b>Full Load</b>
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	<b>1980 min</b>	<b>33.0 hour</b>	<b>Full Chemical</b>
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	<b>2160 min</b>	<b>36.0 hour</b>	<b>Full Load</b>
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	<b>2400 min</b>	<b>40.0 hour</b>	<b>Full Chemical</b>
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	<b>2880 min</b>	<b>48.0 hour</b>	<b>Full Load</b>
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	<b>4800 min</b>	<b>80.0 hour</b>	<b>Full Chemical</b>
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	<b>6480 min</b>	<b>108 hour</b>	<b>Full Chemical</b>
	@Temperature 10.0 °C	@Temperature 50.0 °F	

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Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		Blue	

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## Contact Songhan Plastic Technology Co.,Ltd.

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