

## Chesterton ARC MXHT High temperature severe wear compound

Category : Ceramic , Polymer , Thermoset , Epoxy

### Material Notes:

**Description:** An advanced ceramic composite for the protection of all metal surfaces subjected to severe erosion, abrasion and chemical attack at elevated temperatures. It is applied at a thickness of 6mm (1/4") or more. It is a 100% solids, non-shrinking coating. ARC MXHT is formulated with a high concentration of ceramic breads and fine ceramic particles for extremely abrasive environments where superior protection is needed. ARC MXHT is applied to a primed surface by trowel. It is chosen over ARC MX1 when abrasion resistance at elevated temperature is required. **Benefits:** Outlasts other wear resistant materials and coatings by 5-7 times Excellent wear characteristics extend equipment's operating cycles Outperforms weld overlay or ceramic tiles Tough resin structure resists thermal-mechanical shock. Use in pH range 2-14 up to 130°C/266°F (wet service) and 230°C/466°F (dry service) No need to post cure **Suggested Uses:**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chesterton-ARC-MXHT-High-temperature-severe-wear-compound.php](http://www.lookpolymers.com/polymer_Chesterton-ARC-MXHT-High-temperature-severe-wear-compound.php)

Physical Properties	Metric	English	Comments
Density	2.90 g/cc	0.105 lb/in <sup>3</sup>	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	ASTM D2240
Tensile Strength at Break	29.6 MPa	4300 psi	ASTM D638
Elongation at Break	0.10 %	0.10 %	ASTM D638
Flexural Strength	55.8 MPa	8100 psi	ASTM D790
Flexural Modulus	4.83 GPa	701 ksi	ASTM D790
Compressive Strength	162 MPa	23500 psi	ASTM D695
Adhesive Bond Strength	>= 13.8 MPa	>= 2000 psi	ASTM D4541
Impact Test	13.6 J	10.0 ft-lb	Reverse; ASTM D2794

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	Wet Service
	230 °C	446 °F	Dry Service

Processing Properties	Metric	English	Comments
Cure Time	180 min	3.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	240 min	4.00 hour	

Processing Properties	Metric @ Temperature 25.0 °C	English @ Temperature 77.0 °F	Tack Free Comments
	360 min	6.00 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	480 min	8.00 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	540 min	9.00 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1080 min	18.0 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	4320 min	72.0 hour	Full Mechanical/Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	5760 min	96.0 hour	Full Mechanical/Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	10100 min	168 hour	Full Mechanical/Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	

Descriptive Properties	Value	Comments
Color	Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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