

## Chesterton ARC MX5 Rapid Curing Fine Particle Wear Compound

Category : Ceramic , Polymer , Thermoset , Epoxy

### Material Notes:

**Description:** An advanced ceramic reinforced composite for the emergency 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 MX5 is formulated with a high concentration of small ceramic beads and particles for extremely abrasive environments where metal loss is often repaired by more conventional and costly weld overlay. ARC MX5 can be used either to rebuild eroded metal surfaces or to provide a wear resistant, sacrificial surface which frequently outperforms the original metal, rubber liners, ceramic tiles or weld overlay. ARC MX5 is chosen over other ARC Composites for abrasion when a rapid cure, emergency repair is needed. **Benefits:** Excellent wear characteristics of ARC MX5 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 Rapid cure allow return to service in 1 hour or less. Easily shaped and formed to any metal surface. **Suggested Uses:** Pneumatic Conveyors Chipper and Chip Bins Hydro Pulpers Turbo Separators Ni-Hard Slurry Pumps Fly Ash Separators Wood Chip Transport Fans Screw Conveyors Exhaust Fans Cyclones, Hoppers Wear Plates Pipe Elbows Pulverized Fuel Lines Pulverizers Information provided by Chesterton

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chesterton-ARC-MX5-Rapid-Curing-Fine-Particle-Wear-Compound.php](http://www.lookpolymers.com/polymer_Chesterton-ARC-MX5-Rapid-Curing-Fine-Particle-Wear-Compound.php)

Physical Properties	Metric	English	Comments
Density	2.20 g/cc	0.0795 lb/in <sup>3</sup>	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	ASTM D2240
Tensile Strength at Break	16.5 MPa	2400 psi	ASTM D638
Flexural Strength	24.1 MPa	3500 psi	ASTM D790
Compressive Strength	63.4 MPa	9200 psi	ASTM D695
Impact Test	6.55 J	4.83 ft-lb	Reverse; ASTM D2794

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	60.0 °C	140 °F	Wet Service
	120 °C	248 °F	Dry Service

Processing Properties	Metric	English	Comments
Cure Time	4.98 min	0.0830 hour	Tack Free
	@Temperature 43.0 °C	@Temperature 109 °F	
	10.0 min	0.167 hour	

Processing Properties	Metric @ Temperature 32.0 °C	English @ Temperature 89.6 °F	Tack Free Comments
	10.0 min	0.167 hour	Light Load
	@Temperature 43.0 °C	@Temperature 109 °F	
	15.0 min	0.250 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	19.8 min	0.330 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	25.00 min	0.4167 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	30.0 min	0.500 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	30.0 min	0.500 hour	Full Load
	@Temperature 43.0 °C	@Temperature 109 °F	
	35.0 min	0.583 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	45.0 min	0.750 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	60.0 min	1.00 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	60.0 min	1.00 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	120 min	2.00 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	120 min	2.00 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	240 min	4.00 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	720 min	12.0 hour	Full Chemical
	@Temperature 43.0 °C	@Temperature 109 °F	
	1080 min	18.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	

Processing Properties	Metric	English	Comments
	14.40 min	24.0 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2160 min	36.0 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	2880 min	48.0 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	

## Contact Songhan Plastic Technology Co.,Ltd.

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