

Chesterton ARC 890 Course Grade Sliding Wear Compound

Category : Ceramic , Polymer , Thermoset , Epoxy

Material Notes:

An advanced ceramic composite for the repair and protection of all metal surfaces subjected to severe erosion, corrosion, and chemical attack. It is normally applied at the thickness of 6 mm (1/4") or more. Non-shrinking. 100% Solids. ARC 890 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. It can be used either to rebuild eroded metal surfaces or to provide a wear resistant surface, which frequently outperforms the original metal, weld overlay, rubber liners or ceramic tiles. Benefits: Excellent wear characteristics extends equipment operating cycles, typically outwears weld overlay or ceramic tiles. Tough resin structure resists thermal-mechanical shock. Outstanding adhesion results in reliable performance with no undercutting. Labor and downtime costs are reduced due to ease of application. Performs well under fluctuating chemical environments, unlike metals which are sensitive to environmental changes. Suggested Uses: Chipper and Chip Bins, Fly Ash Separators, Hoppers/Chutes, Hydro Pulpers, NI-hard Slurry Pumps, Pneumatic Conveyors, Pulp Dewatering Screws, Turbo Separators, Wood Chip Transport Fans, Dust Collection System Cyclones, Pulverizers, Wear Plates, Pipe Elbows, Pulverized Fuel Lines, Exhaust Fans, Screw Conveyors, Scroll Casings. Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-890-Course-Grade-Sliding-Wear-Compound.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength at Break	24.1 MPa	3500 psi	ASTM D638
Flexural Strength	35.9 MPa	5200 psi	ASTM D790
Compressive Strength	60.7 MPa	8800 psi	ASTM D695
Impact Test	6.78 J	5.00 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	30.0 min @Temperature 43.0 °C	0.500 hour @Temperature 109 °F	Tack Free

Processing Properties	Metric	English	Comments
	@Temperature 43.0 °C	@Temperature 109 °F	Light Load
120 min	@Temperature 32.0 °C	2.00 hour @Temperature 89.6 °F	Tack Free
240 min	@Temperature 25.0 °C	4.00 hour @Temperature 77.0 °F	Tack Free
360 min	@Temperature 32.0 °C	6.00 hour @Temperature 89.6 °F	Light Load
420 min	@Temperature 16.0 °C	7.00 hour @Temperature 60.8 °F	Tack Free
480 min	@Temperature 25.0 °C	8.00 hour @Temperature 77.0 °F	Light Load
720 min	@Temperature 43.0 °C	12.0 hour @Temperature 109 °F	Full Load
1200 min	@Temperature 32.0 °C	20.0 hour @Temperature 89.6 °F	Full Load
1440 min	@Temperature 16.0 °C	24.0 hour @Temperature 60.8 °F	Light Load
1440 min	@Temperature 43.0 °C	24.0 hour @Temperature 109 °F	Full Chemical
1800 min	@Temperature 25.0 °C	30.0 hour @Temperature 77.0 °F	Full Load
1800 min	@Temperature 32.0 °C	30.0 hour @Temperature 89.6 °F	Full Chemical
2160 min	@Temperature 25.0 °C	36.0 hour @Temperature 77.0 °F	Full Chemical
2880 min	@Temperature 16.0 °C	48.0 hour @Temperature 60.8 °F	Full Load
4320 min	@Temperature 16.0 °C	72.0 hour @Temperature 60.8 °F	Full Chemical

Descriptive Properties	Value	Comments
Color	Gray	

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