

Chesterton ARC BX2 Contractor Grade Fine Sliding Wear Compound

Category : Ceramic , Polymer , Thermoset , Epoxy

Material Notes:

Description: ARC BX2 is an advanced contractor grade ceramic reinforced composite for the 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 BX2 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 BX2 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 BX2 is a long lasting wearing surface and is chosen over ARC BX1 where a thinner, more easily applied composite is required. **Benefits:** Excellent wear characteristics of ARC BX2 extends equipment operating cycles Tough resin structures resists thermal-mechanical shock Outstanding adhesion results in reliable performance with no undercutting Ease of application reduces labor and downtime costs It can be easily shaped and formed to any metal surface Convenient packaging suitable for large volume applications.

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-BX2-Contractor-Grade-Fine-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	105	105	ASTM D785
Hardness, Shore D	90	90	ASTM D2240
Tensile Strength at Break	31.4 MPa	4550 psi	ASTM D638
Flexural Strength	63.8 MPa	9250 psi	ASTM D790
Compressive Strength	88.3 MPa	12800 psi	ASTM D695
Impact Test	5.76 J	4.25 ft-lb	Reverse; ASTM D2794

Thermal Properties	Metric	English	Comments
CTE, linear	39.6 $\mu\text{m}/\text{m}\cdot\text{C}$	22.0 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM C531
Maximum Service Temperature, Air	95.0 $^{\circ}\text{C}$	203 $^{\circ}\text{F}$	Wet Service
	205 $^{\circ}\text{C}$	401 $^{\circ}\text{F}$	Dry Service

Processing Properties	Metric	English	Comments
Cure Time	19.8 min	0.330 hour	Tack Free
	@Temperature 43.0 °C	@Temperature 109 °F	
	90.0 min	1.50 hour	Light Load
	@Temperature 43.0 °C	@Temperature 109 °F	
	120 min	2.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	240 min	4.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	360 min	6.00 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	420 min	7.00 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	480 min	8.00 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	720 min	12.0 hour	Full Load
	@Temperature 43.0 °C	@Temperature 109 °F	
	960 min	16.0 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	1200 min	20.0 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1440 min	24.0 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	1440 min	24.0 hour	Full Chemical
	@Temperature 43.0 °C	@Temperature 109 °F	
	1800 min	30.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	2160 min	36.0 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	2160 min	36.0 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric _{in}	English _{ur}	Comments
	@Temperature 16.0 °C	@Temperature 60.8 °F	Full Load
	2880 min	48.0 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	4320 min	72.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	4320 min	72.0 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	5760 min	96.0 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	

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