

Chesterton ARC S1HB Sprayable high-viscosity, 100% solids, advanced coating

Category : Polymer , Thermoset , Epoxy

Material Notes:

An advanced composite formulated to protect concrete and metal surfaces from corrosion and chemical attack. It is normally applied at a thickness of 1-2 mm (40-80 mils) per coat. However, greater single coat film thickness is achievable when spray applied. Non-shrinking, 100% solids. ARC S1HB is a high viscosity, high performance composite lining that is designed to be a spray applied but may also be applied by brush. ARC S1HB allows for uniform coverage over rough surfaces and yields excellent immersion exposures. The cured ARC S1HB provides a barrier film with adhesion and resistance to corrosion. Benefits: High build capability for coverage over irregular surfaces. Outlasts conventional paints and coatings. Long pot life allow for ease of use. 100% solids, no shrinkage on cure. Outstanding adhesion insures reliable performance. Able to be high voltage spark tested for pinhole free films. Suggested Uses: Bar Screen Chambers, Junction/Splitter Boxes, collection system Piping, Digesters, Sewer Piping, Waste water Clarifiers, Manholes, Thickener Tanks, "Other" Concrete and Metal Structures. Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-S1HB-Sprayable-high-viscosity-100-solids-advanced-coating.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength at Break	38.7 MPa	5610 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Strength	57.6 MPa	8360 psi	ASTM D790
Flexural Modulus	2.96 GPa	430 ksi	ASTM D790
Compressive Strength	85.43 MPa	12390 psi	ASTM D695
Adhesive Bond Strength	10.1 MPa	1460 psi	Dry Concrete; ASTM D4541
	>= 13.8 MPa	>= 2000 psi	Metal; ASTM D4541

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	52.0 °C	126 °F	Wet Service
	80.0 °C	176 °F	Dry Service

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Tack Free

Processing Properties	Metric @Temperature 43.0 °C	English @Temperature 109 °F	Comments
	360 min	6.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	420 min	7.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	480 min	8.00 hour	Light Load
	@Temperature 43.0 °C	@Temperature 109 °F	
	600 min	10.0 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	960 min	16.0 hour	Overcoat End
	@Temperature 43.0 °C	@Temperature 109 °F	
	1080 min	18.0 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1440 min	24.0 hour	Full Load
	@Temperature 43.0 °C	@Temperature 109 °F	
	1800 min	30.0 hour	Overcoat End
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1920 min	32.0 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2160 min	36.0 hour	Overcoat End
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2160 min	36.0 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	2400 min	40.0 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	2880 min	48.0 hour	Full Chemical
	@Temperature 43.0 °C	@Temperature 109 °F	
	3360 min	56.0 hour	Overcoat End
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	3600 min	60.0 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
	4320 min	72.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	4320 min	72.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	5400 min	90.0 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	7200 min	120 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	Light Gray	

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