

Chesterton ARC CS2 Low-viscosity, Composite concrete primer sealer

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: An advanced composite formulated to protect concrete surfaces from mild chemical attack. It is normally applied at a thickness of 250-375 microns (10-15 mils) per coat. Non-shrinking. 100% solids. ARC CS2 is a low viscosity high performance composite coating that can be easily applied by notched squeegee, brush, roller, or spray equipment. ARC CS2 yields excellent barrier properties for long-term chemical resistance in immersion exposures. The cured ARC CS2 provides a high gloss surface with adhesion to dry and wet concrete. **Benefits:** Outlasts conventional paints and coatings Long pot life allows for ease of use 100% solids, no shrinkage on cure Outstanding adhesion insures reliable performance **Suggested Uses:** Water and Sewage Tanks Secondary Containment Pipeline Coatings Clarifier Tanks Water Intakes and Dams Cooling Towers Turbine Decks Industrial Floors Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-CS2-Low-viscosity-Composite-concrete-primer-sealer.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	ASTM D2240
Tensile Strength at Break	23.3 MPa	3380 psi	ASTM D638
Modulus of Elasticity	2.41 GPa	350 ksi	ASTM D790
Flexural Strength	40.0 MPa	5800 psi	ASTM D790
Compressive Strength	66.5 MPa	9650 psi	ASTM D695
Adhesive Bond Strength	>= 3.86 MPa	>= 560 psi	Wet concrete; ASTM D4541
	>= 12.1 MPa	>= 1750 psi	Dry concrete; ASTM D4541

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	52.0 °C	126 °F	Wet Service
	93.0 °C	199 °F	Dry Service

Processing Properties	Metric	English	Comments
Cure Time	360 min	6.00 hour	Foot Traffic
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	540 min	9.00 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	

Processing Properties	Metric	English	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	Foot Traffic
	720 min	12.0 hour	Foot Traffic
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	960 min	16.0 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	960 min	16.0 hour	Foot Traffic
	@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	
	1800 min	30.0 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2160 min	36.0 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	2400 min	40.0 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	3840 min	64.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	4800 min	80.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	6000 min	100 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	8400 min	140 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	10800 min	180 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Thermal Compatibility to Concrete	Pass	5 cycles/dry<-10°C to 50°C (<14°F to 122°F)

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