

Chesterton ARC CS4 low-viscosity, 100% solids, barrier coating

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: An advanced composite formulated to protect concrete surfaces from harsh chemical attack. It is normally applied at a thickness of 250-375 microns (10-15 mils) per coat in a 2 coat system. Non-shrinking. 100% solids. ARC CS4 is a low viscosity, high performance composite coating that can be easily applied by brush, notched squeegee, roller, or spray equipment. ARC CS4 yields excellent barrier properties for long-term chemical resistance in immersion exposures. The cured ARC CS4 provides a high gloss surface with adhesion to dry and wet concrete. **Benefits:** Resistance to a broad range of inorganic and organic acids, caustics and other chemical solutions 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:** Chemical Tanks Secondary Containment Chemical Plant Floors Sumps and Dikes Drainage Troughs Pump Bases Equipment Foundations Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-CS4-low-viscosity-100-solids-barrier-coating.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength at Break	21.0 MPa	3050 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Flexural Strength	40.5 MPa	5880 psi	ASTM D790
Flexural Modulus	1.31 GPa	190 ksi	ASTM D790
Compressive Strength	94.80 MPa	13750 psi	ASTM D695
Adhesive Bond Strength	>= 11.9 MPa	>= 1720 psi	Dry concrete; ASTM D4541

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	40.0 °C	104 °F	Wet Service (Continuous)
	52.0 °C	126 °F	Wet Service (Intermittent)
	80.0 °C	176 °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	

Processing Properties	Metric _h	English _h	Comments
	@Temperature 32.0 °C	@Temperature 89.6 °F	Light Load
	600 min	10.0 hour	Foot Traffic
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	720 min	12.0 hour	Foot Traffic
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	960 min	16.0 hour	Foot Traffic
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	960 min	16.0 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °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
Color	Red	
Thermal Compatibility to Concrete	Pass	5 cycles/dry<-10°C to 50°C (<14°F to 122°F)

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