Chesterton ARC S1 General purpose coating

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: An advanced polymer composite formulated to protect metal surfaces from corrosion and chmical attack. It is normally applied at a thickness of 250 microns (10 mils) per coat. Non-shrinking, 100% solids. ARC S1 is a low viscosity high performance composite lining that is designed to be spray applied but may also be applied by roller or brush. As a one coat system, it functions as a corrosion resistant primer for many high performance coatings. ARC S1 yields excellent barrier properties for long-term corrosion and chemical resistance in immersion exposures when used in a multicoat application. The cured ARC S1 provides a high gloss surface with adhesion and resistance to corrosion. Benefits:Outlasts conventional paints and coatingsLong pot life allows for ease of use100% solids, no shrinkage on cureOutstanding adhesion insures reliable performance against under film corrosionAble to be high voltage spark tested for pinhole free films Suggested Uses:Chemical Storage TanksStructural SteelPipeline CoatingsClarifier TanksPetroleum Storage TanksCooling Water SystemsService Water SystemThickener TanksInformation provided by Chesterton

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chesterton-ARC-S1-General-purpose-coating.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength at Break	23.4 MPa	3400 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	41.4 MPa	6000 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Adhesive Bond Strength	>= 13.8 MPa	>= 2000 psi	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
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	ASTM D648

Processing Properties	Metric	English	Comments
Cure Time	240 min @Temperature 32.0 °C	4.00 hour @Temperature 89.6 °F	Tack Free

Processing Properties	Metric	English	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	Tack Free
	420 min @Temperature 16.0 °C	7.00 hour @Temperature 60.8 °F	Tack Free
	480 min @Temperature 10.0 °C	8.00 hour @Temperature 50.0 °F	Tack Free
	720 min @Temperature 32.0 °C	12.0 hour @Temperature 89.6 °F	Light Load
	1080 min @Temperature 25.0 °C	18.0 hour @Temperature 77.0 °F	Light Load
	1440 min @Temperature 16.0 °C	24.0 hour @Temperature 60.8 °F	Light Load
	1440 min @Temperature 32.0 °C	24.0 hour @Temperature 89.6 °F	Overcoat End
	1440 min @Temperature 32.0 °C	24.0 hour @Temperature 89.6 °F	Full Load
	1800 min @Temperature 25.0 °C	30.0 hour @Temperature 77.0 °F	Overcoat End
	2160 min @Temperature 10.0 °C	36.0 hour @Temperature 50.0 °F	Light Load
	2160 min @Temperature 16.0 °C	36.0 hour @Temperature 60.8 °F	Overcoat End
	2160 min @Temperature 25.0 °C	36.0 hour @Temperature 77.0 °F	Full Load
	2640 min @Temperature 10.0 °C	44.0 hour @Temperature 50.0 °F	Overcoat End
	2880 min @Temperature 16.0 °C	48.0 hour @Temperature 60.8 °F	Full Load
	4320 min @Temperature 10.0 °C	72.0 hour @Temperature 50.0 °F	Full Load
	7200 min	120 hour	

Processing Properties	Metric	English	Comments
	@Temperature 32.0 °C	@Temperature 89.6 °F	Full Chemical
	10100 min @Temperature 25.0 °C	168 hour @Temperature 77.0 °F	Full Chemical
	12600 min @Temperature 16.0 °C	210 hour @Temperature 60.8 °F	Full Chemical
	134000 min @Temperature 10.0 °C	2240 hour @Temperature 50.0 °F	Full Chemical

Descriptive Properties	Value	Comments
Color	Blue	
	Light Gray	

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