Chesterton ARC PW Potable Water Coating

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: ARC PW is a 100% solids lining certified for NSF/ANSI 61 potable water, cold water service. It is recommended to be applied by brush, roll or spray at 500-750 microns (20-30 mils) total dry film thickness in a two coat system for valves, fittings and pumps. ARC PW has low permeability, high tensile adhesion strength, and excellent resistance to water treatment chemicals and erosive flow condition thereby making it an ideal selection for use in potable water treatment and distribution service conditions. Benefits:100% solids, Low VOC'sHigh voltage spark testable per NACE RP0188Amine blush free formulationConvenient 2:1 mix ratioExtended pot lifeCertified to NSF/ANSI 61 Suggested Uses:Valves and FittingsTransfer PumpsRaw Water PumpsInformation provided by Chesterton

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chesterton-ARC-PW-Potable-Water-Coating.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	ASTM D2240
Elongation at Break	3.15 %	3.15 %	ASTM D638
Flexural Strength	65.63 MPa	9519 psi	ASTM D790
Flexural Modulus	3.72 GPa	540 ksi	ASTM D790
Compressive Strength	70.19 MPa	10180 psi	ASTM D695
Adhesive Bond Strength	>= 2.76 MPa	>= 400 psi	Dry Concrete; ASTM D4541
	46.83 MPa	6792 psi	Metal; ASTM D4541

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	23.0 °C	73.4 °F	Wet Service (NSF 61)
	52.0 °C	126 °F	Wet Service (General)
	62.0 °C	144 °F	Dry Service (General)

Processing Properties	Metric	English	Comments
Cure Time	270 min @Temperature 32.0 °C	4.50 hour @Temperature 89.6 °F	Tack Free
	360 min	6.00 hour	Tack Free

Processing Properties	Metric	English	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	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
	1560 min @Temperature 32.0 °C	26.0 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 @Temperature 32.0 °C	120 hour @Temperature 89.6 °F	Full Chemical

Processing Properties	Metric	English	Comments
	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
	14400 min @Temperature 10.0 °C	240 hour @Temperature 50.0 °F	Full Chemical

Descriptive Properties	Value	Comments
Color	Blue	
	Off White	

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