

Chesterton ARC HT-T Spark Testable High Temperature Trowelable Abrasion Control Compound

Category : Ceramic , Polymer , Thermoset , Epoxy

Material Notes:

An advanced ceramic composite formulated to protect equipment from corrosion and erosion in elevated temperature water solution immersion. This system is a high viscosity composite that is applied by trowel or plastic applicator tool in one or two coats, as required. ARC HT-T is applied at a normal thickness of 900-1150 microns (35-45 mils). It is a 100% solids non-shrinking composite. ARC HT-T provides exceptional corrosion and erosion protection to high temperature equipment handling water solutions. The cured product also provides outstanding blister and abrasion resistance with a high gloss finish. Benefits: Exceptional permeating and blister resistance in high temperature water applications, including mild acids and bases. High gloss surface reduces drag, improves flow and pump efficiency. Tough resin structure resists thermal-mechanical shock. Outstanding adhesion insures reliable performance with no undercutting or underfilm corrosion. Advanced reinforcement design provides outstanding abrasion resistance. Ability to in-service cure in static conditions reduces application costs and downtime. High voltage spark testable per NACE SP0188. Suggested Uses: Condensers, Heat Exchangers, Pump Volutes, Pump Impellers, Condensate Pumps, Tanks, Valves, Pressure Vessels, Hot Water Pumps, Drill Mud Circulating Equipment, Oil/Water Separators, Oil Extraction Manifolds, Condensate Tanks, Evaporators, Sugar Process Equipment. Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-HT-T-Spark-Testable-High-Temperature-Trowelable-Abrasion-Control-Compound.php

Physical Properties	Metric	English	Comments
Density	2.22 g/cc	0.0802 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	ASTM D2240
Elongation at Break	3.6 %	3.6 %	ASTM D638
Flexural Strength	53.8 MPa	7800 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Strength	93.1 MPa	13500 psi	ASTM D695
Adhesive Bond Strength	32.8 MPa	4760 psi	ASTM D4541
Impact Test	4.52 J	3.33 ft-lb	reverse; ASTM D2794
	9.04 J	6.67 ft-lb	direct; ASTM D2794

Thermal Properties	Metric	English	Comments
CTE, linear	30.2 μm/m-°C	16.8 μin/in-°F	ASTM E228
	@Temperature -5.00 -	@Temperature 23.0 -	

Thermal Properties	25.0 °C Metric	77.0 °F English	Comments
	90.2 µm/m-°C	50.1 µin/in-°F	
	@Temperature 125 - 150 °C	@Temperature 257 - 302 °F	ASTM E228
Maximum Service Temperature, Air	110 °C	230 °F	Wet Service
	150 °C	302 °F	Dry Service

Processing Properties	Metric	English	Comments
Cure Time	180 min	3.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	180 min	3.00 hour	Overcoat Begin
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	240 min	4.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	240 min	4.00 hour	Overcoat Begin
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	360 min	6.00 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	480 min	8.00 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	480 min	8.00 hour	Overcoat Begin
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	540 min	9.00 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1080 min	18.0 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	2160 min	36.0 hour	Service
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	2400 min	40.0 hour	Overcoat End
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	2880 min	48.0 hour	Service
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	Overcoat End
	4320 min	72.0 hour	Overcoat End
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	5040 min	84.0 hour	Service
	@Temperature 16.0 °C	@Temperature 60.8 °F	

Descriptive Properties	Value	Comments
Color	Black	
	Green	

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