

## Chesterton ARC HT-S High Temperature Corrosion Resistant Coating

Category : Polymer , Thermoset , Epoxy

### Material Notes:

**Description:** ARC HT-S is a high temperature corrosion resistant coating for continuous operating conditions at elevated temperatures. It is easily applied by brush or roller and can be sprayed with conventional airless equipment. Spark testable, non-shrinking 100% solids. ARC HT-S is reinforced with high modulus reinforcements to improve long term resistance to cold wall induced blistering and delamination. Its unique chemistry allows for reliable long term immersion service at elevated temperatures without the need for post curing thereby simplifying installation. ARC HT-S is capable of in-situ curing. **Benefits:**High voltage spark testable to NACE SP 0188Capable of ambient cureTwo color system provides visual indicators of mixingAble to handle immersion in elevated temperature aqueous applications

**Suggested Uses:**Process Cooling Water Heat ExchangersCrystallizers/EvaporatorsCentrifugesCondensate Return PumpsDistillation

**Units:**Oil/Water, Oil/Gas Separator VesselsInformation provided by Chesterton

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chesterton-ARC-HT-S-High-Temperature-Corrosion-Resistant-Coating.php](http://www.lookpolymers.com/polymer_Chesterton-ARC-HT-S-High-Temperature-Corrosion-Resistant-Coating.php)

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in <sup>3</sup>	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	ASTM D2240
Tensile Strength at Break	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Flexural Strength	40.0 MPa	5800 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Compressive Strength	106 MPa	15400 psi	ASTM D790
Adhesive Bond Strength	>= 13.8 MPa	>= 2000 psi	ASTM D4541

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	Wet Service
	175 °C	347 °F	Dry Service

Processing Properties	Metric	English	Comments
Cure Time	180 min	3.00 hour	Overcoat Begin
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	240 min	4.00 hour	

Processing Properties	Metric @ Temperature 25.0 °C	English @ Temperature 77.0 °F	Overcoat Begin Comments
	240 min	4.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	360 min	6.00 hour	Overcoat Begin
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	360 min	6.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	480 min	8.00 hour	Overcoat Begin
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	480 min	8.00 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	600 min	10.0 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	720 min	12.0 hour	Overcoat End
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1080 min	18.0 hour	Overcoat End
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1440 min	24.0 hour	Overcoat End
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	1800 min	30.0 hour	Overcoat End
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	4320 min	72.0 hour	Full Mechanical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	4320 min	72.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	5760 min	96.0 hour	Full Mechanical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	5760 min	96.0 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	7200 min	120 hour	Full Mechanical
	@Temperature 16.0 °C	@Temperature 60.8 °F	

Processing Properties	Metric 7200 min	English 120 hour	Comments
	@Temperature 16.0 °C	@Temperature 60.8 °F	Full Chemical
	8640 min	144 hour	Full Mechanical
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	8640 min	144 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	Blue	
	Gray	

## Contact Songhan Plastic Technology Co.,Ltd.

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