

Chesterton ARC 982 100% Novolac acid resistant coating

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: An advanced polymer composite formulated to protect equipment from extreme chemical attack and corrosion. A low viscosity composite that is applied by brush, squeegee, or a plural component sprayer system. ARC 982 may be applied at a minimum thickness of 250 microns (10 mils) per coat. A two-coat application of ARC 982 provides protection from concentrated acids, alkalis, and solvents. The cured composite provides outstanding chemical resistance with a high gloss finish. Benefits:Excellent resistance to a wide variety of concentrated acids such as sulfuric acid up to 98% and fluctuating chemical environments.ARC 982 outlasts rubber and other traditional lining materials as it is resistant to aging and embrittlementTough resin structure resists thermal-mechanical shockOutstanding adhesion results in reliable performance with no under film corrosionHoliday testable per NACE RP0188 Suggested Uses:Chemical Storage TanksExhaust Gas DuctworkImpellersPump CasingsStructural SteelValvesChimneys and StacksFans and HousingsHeat ExchangersTanks and PipingReaction VesselsInformation provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-982-100-Novolac-acid-resistant-coating.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	ASTM D2240
Elongation at Break	1.1 %	1.1 %	ASTM D638
Flexural Strength	30.6 MPa	4440 psi	ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790
Compressive Strength	85.56 MPa	12410 psi	ASTM D695
Adhesive Bond Strength	>= 19.0 MPa	>= 2750 psi	ASTM D4541
Impact Test	2.49 J	1.83 ft-lb	Reverse; ASTM D2794
	3.16 J	2.33 ft-lb	Direct; ASTM D2794

Thermal Properties	Metric	English	Comments
CTE, linear	102 µm/m-°C	56.9 µin/in-°F	ASTM C531
Maximum Service Temperature, Air	70.0 °C	158 °F	Wet Service
	175 °C	347 °F	Dry Service

Processing Properties	Metric	English	Comments
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Processing Properties	Metric ¹⁾	English ²⁾	Comments
Cure Time			Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	360 min	6.00 hour	Light Load/Overcoat End
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	480 min	8.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	600 min	10.0 hour	Light Load/Overcoat End
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	960 min	16.0 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	1200 min	20.0 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1200 min	20.0 hour	Light Load/Overcoat End
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	1440 min	24.0 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1440 min	24.0 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	1800 min	30.0 hour	Light Load/Overcoat End
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	2880 min	48.0 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	4320 min	72.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	10100 min	168 hour	Chemical Resistance
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	17300 min	288 hour	Chemical Resistance
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	20200 min	336 hour	Chemical Resistance
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	25900 min	432 hour	

Processing Properties	Metric @ Temperature 10.0 °C	English @ Temperature 50.0 °F	Chemical Resistance Comments
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Descriptive Properties	Value	Comments
Color	Light Gray	
	Medium Gray	

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