

Chesterton ARC NVE SYSTEM Vinyl Ester Lining

Category : Polymer , Thermoset , Vinyl Ester

Material Notes:

Description: ARC NVE is a high performance, quartz reinforced, three-component, modified novolac vinyl ester lining capable of being applied to horizontal and vertical surfaces. The NVE system kit is comprised of a primer (NVE PC), top coat (NVE TC) and optional veil coat sealer (NVE VC) which is used in applications that require high impact and abrasion resistance combined with resistance to a wide range of solvents, acids, fats, oils, water and various chemicals at ambient as well as elevated temperatures. **Benefits:** Deep penetrating primer system allows for exceptionally high adhesion to prepared concrete. Integrated topcoat sealer system prevents migration or penetration of chemicals. High quartz loading ensure a compatible thermal coefficient of expansion providing long-term resistance to disbondment. Graded quartz reinforcements allow for single lift vertical build application up to 3 meters (10 ft). User friendly consistency makes installation and finishing fast and easy. **Applications:** ARC NVE is generally used to repair and upgrade concrete surfaces or as a replacement for acid resistant tiles, phenolics, furans, conventional novolac epoxy, sulfonated concretes and other overlayments. It is formulated to be thermally compatible with concrete and its rapid curing allows areas to be returned to service in as little as 24 hours. ARC NVE is chosen over the ARC Concrete Composite Systems for its superior chemical resistance. **Suggested Uses:** Battery Rooms, Pickling & Plating Lines, Bleaching Areas, Sumps, Trenches & Pits, Chemical Containments, Pump & Equipment Bases, Chemical Loading Stations, Pickling Rooms. CAS: 100-42-5. Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-NVE-SYSTEM-Vinyl-Ester-Lining.php

Physical Properties	Metric	English	Comments
Density	2.24 g/cc	0.0809 lb/in ³	Cured
Volatiles	2.2 %	2.2 %	EPA 24

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	9.915 MPa	1438 psi	ASTM C307
Modulus of Elasticity	12.4 GPa	1800 ksi	Flexural
Flexural Strength	17.48 MPa	2535 psi	ASTM C580
Compressive Strength	78.6 MPa	11400 psi	ASTM C579
Adhesive Bond Strength	>= 3.86 MPa	>= 560 psi	Excellent - 100% Concrete Failure

Thermal Properties	Metric	English	Comments
CTE, linear	26.6 µm/m-°C	14.8 µin/in-°F	ASTM C531
Maximum Service Temperature, Air	135 °C	275 °F	Wet Continuous
	200 °C	392 °F	Dry Continuous

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Foot Traffic
	@Temperature 26.0 °C	@Temperature 78.8 °F	
	60.0 min	1.00 hour	Light Load
	@Temperature 26.0 °C	@Temperature 78.8 °F	
	60.0 min	1.00 hour	Full Load
	@Temperature 26.0 °C	@Temperature 78.8 °F	
	90.0 min	1.50 hour	Foot Traffic
	@Temperature 21.0 °C	@Temperature 69.8 °F	
	90.0 min	1.50 hour	Light Load
	@Temperature 21.0 °C	@Temperature 69.8 °F	
	120 min	2.00 hour	Full Load
	@Temperature 21.0 °C	@Temperature 69.8 °F	
	150 min	2.50 hour	Foot Traffic
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	180 min	3.00 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	240 min	4.00 hour	Foot Traffic
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	240 min	4.00 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	360 min	6.00 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	480 min	8.00 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	960 min	16.0 hour	Full Chemical
	@Temperature 26.0 °C	@Temperature 78.8 °F	
	1440 min	24.0 hour	Full Chemical
	@Temperature 21.0 °C	@Temperature 69.8 °F	
	1680 min	28.0 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	

Processing Properties	Metric _{cn}	English _{ur}	Comments
	@Temperature 10.0 °C	@Temperature 50.0 °F	Full Chemical

Descriptive Properties	Value	Comments
Color	Gray	
	Red	
Thermal Compatibility to Concrete	Pass	ASTM C884

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