Product Datasheet: ARC NVE



3-Layer system, high performance, quartz reinforced, novolac vinyl ester lining for concrete applications requiring extreme chemical resistance and moderate abrasion & impact protection. ARC NVE industrial coating is designed to:

- Replace acid resistant tiles or overlayments of phenolic, furan, polyester, or concrete
- Protect against concentrated acids, organic & inorganic acids, solvents, and alkalis
- Easily apply by trowel

Application Areas

- Battery Rooms
- Pickling/Plating lines
- Bleaching Areas
- Packaging and Coverage

Nominal System Kit coverage 9.70 $\rm m^2$ (104.00 ft.²) at 6 mm (240 mil) thickness

- The NVE 3-Layer, 4 component System Kit:
 1. NVE Primer Coat (PC)
 - 1 x 2.1 liter (.55 gal) container - Nominal DFT of 125-180 μm (5-7 mil)
 - 2. NVE Top Coat (TC)
 - 1 x 16 liter (4.22 gal) container - Nominal WFT of 6 mm (240 mil) extended
 - with 7 bags of QRV
 - 3. NVE Veil Coat (VC) - 1 x 4.8 liter (1.27 gals) container
 - Nominal WFT of 250-375 μm (10-15 mil)
 - 4. ARC CHP Catalyst
 - 2 X 250 ml containers

Note: Components are pre-measured & pre-weighed.

Each kit includes mixing and application instructions plus tools.

Colors: Red or Gray* * Available from our EME Manufacturing Facility only

Technical Data

* Available from our EME Manufacturing Facility only Maintain transport temperature below 24°C (75°F)

- Sumps, Trenches & Pits
- Chemical ContainmentsPump & Equipment

Bases

- Pickling Rooms
- Chemical loading stations





Features and Benefits

- Resists concentrated chemicals i.e. Alkalis, Acids & Solvents
 - Makes selection easy
 - Covers a broad range of exposures
- Coefficient of Thermal expansion comparable to concrete
 - Resists disbondment
 - Resists cracking & delamination
- Tough quartz reinforced composite
 Serves demanding applications
- Deep penetrating primer system
 - Promote high adhesion to concrete
- Integrated topcoat sealer system
 - Blocks chemical penetration
 - Stops migration of chemicals
- Reinforcement with coupling agent
 - Minimizes coating voids
 - Permeation resistant

Technical Da	ta								
Composition	NVE PC	A modified epoxy novolac	A modified epoxy novolac vinyl ester resin reacted with catalyst						
	NVE TC Matrix	A modified epoxy novolac	A modified epoxy novolac vinyl ester resin reacted with catalyst						
NVE TC Reinforcement NVE VC Matrix NVE VC Reinforcement		Proprietary quartz reinforcement blend (QRV) pretreated with polymeric coupling agent A low viscosity modified epoxy novolac vinyl ester resin with reacted with catalyst A proprietary blend of permeation resistant, inert particles							
					Cured Density			2.24 g/cc	126 lb/ cu.ft.
					Compressive Strength		(ASTM C 579)	801 kg/cm ² (78.6 MPa)	11,400 psi
Tensile Strength		(ASTM C 307)	100 kg/cm² (9.9 MPa)	1,438 psi					
Flexural Strength		(ASTM C 580)	177 kg/cm² (17.4 MPa)	2,535 psi					
Flexural Modulus of Elasticity		(ASTM C 580)	1.29 x 10 ⁵ kg/cm ²	1.8 x 10 ⁶ psi					
Bond Strength Excellent - 100% Concrete Failure			>39 kg/cm² (3.86 MPa)	> 560 psi					
Linear Coefficient of Thermal Expansion		(ASTM C 531)	26.7 x 10 ⁻⁶ cm/cm/°C	14.8 x 10 ⁻⁶ in/in/°F					
VOC		EPA 24	2.2%						
Thermal Compatibility to Concrete		(ASTM C 884)	Pass						
Maximum Temperature (Dependent on service)		Wet Service (continuous) Dry Service (continuous)	135°C 200°C	275°F 392°F					
Shelf life (unopened containers)		1 year [transported and sto	1 year [transported and stored between 10°C (50°F) and 24°C (75°F)]						



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