

TD.450 – TECHNICAL DATA: E100-NV4™ Novolac Protective Coating

Revised: 4.1.10

Product Name: E100-NV4™ Novolac Protective Coating

Product Class: A chemical resistant epoxy coating for typical industrial floors and chemical containment areas subject to acid, alkali and solvent contamination.

Description: Elite Crete Systems product, E100-NV4™ Novolac Protective Coating is an highly chemical resistant coating for splash and spills of corrosive reagents such as 98% sulfuric acid. E100-NV4™ Novolac Protective Coating is available in red, black and clear colors. Excellent for most flooring, wall and equipment coating applications where splash and spill resistance is required.

Typical Uses:

- For most splash and spills of acids, alkalis, solvents
- Horizontal applications
- Secondary Containment areas
- Industrial floors

Key Features:

- Bonds to damp or dry concrete
- Bonds to steel
- Resistant to most Chemical reagents (splash & spill)
- Provides a tough wearing surface for most industrial traffic

Product Properties: (Material and curing conditions at 77°F (24° C) unless noted, 50% R.H.)

		<u>Cure Schedule</u>
• Colors: brick red, charcoal gray, clear		• Tack Free: 6 hours
• Viscosity @ 77°F (24° C)		• Foot Traffic: 12 hours
o Part A 2300 cps		• All Traffic: 24 hours
o Part B 400 cps		• Chemical exposure; 48 hours
o Mixed 2000 cps		
• Pot Life: 20 minutes		

PHYSICAL PROPERTIES

(@77°F (24° C), 7 day ambient cure)

Compressive Strength	ASTM D 695	9,000 PSI
Tensile Strength	ASTM D 638	6,550 PSI
Flexural Strength	ASTM D 790	8,400 PSI
Ultimate Elongation		4.2%
Shore D hardness	ASTM D 2240	89
Taber Abrasion Resistance		
CS-17 wheel, 1000 gm load, 500 cycles	ASTM D 4060	18 MG LOSS
Heat Deflection Temperature	ASTM D 648	118 F

CHEMICAL RESISTANCE
Splash & Spill Applications

ORGANIC ACIDS

Acetic 1-50%
 Battery acid 1-98%
 Chromic 1-30%
 HCL 1-37%
 Hydrofluoric 1-40%
 Nitric 1-20%
 Oleic
 Phosphoric 1-85%
 Sulfuric 1-98%

BASES ALKALINES

Ammonia 1-25%
 Ammonium Hydroxide 1-25%
 Black Pulp Liquor
 Calcium Hydroxide 1-25%
 Hydrogen Peroxide 1-30%
 Green Pulp Liquor
 Sodium Hypochlorite 1-9%
 Sodium Hydroxide 1-50%
 Potassium Hydroxide all

SOLVENTS

Acetaldehyde	Jet Fuel
Acetone	Kerosene
Butyl Acetate	MEK
Cyclohexane	Methanol
Ethanol	Methyl alcohol
Ethyl Acetate	Rubbing Alcohol
Ethyl Alcohol	Wood Alcohol
Formaldehyde	111 Trichloroethane
Isopropyl Alcohol	Phenol

Available Packaging:

- 1.5 gal. kit
- 3 gal. kit
- 15 gal kit

Suggested Storage:

- Store in a temperature and weather controlled area between 65° F and 85° F.
- Do not allow to freeze.
- Shelf Life - 1 year in original unopened containers.
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