

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

Revised: 1.19.16

**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 a 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, black, 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	128 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
- 150 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.