

TD.451 – TECHNICAL DATA: E100-NV5™ High Performance Novolac Protective Coating

Revised: 4.1.10

Product Name: E100-NV5™ High Performance Novolac Protective Coating

Product Class: High performance novolac unlike most chemical resistant coatings on the market, has been designed for immersion service to most chemical reagents

Description: Elite Crete Systems product, E100-NV5™ High Performance Novolac Protective Coating is an highly chemical resistant coating for immersion service subjected to corrosive reagents like 98% sulfuric acid, nitric acid and most bases and solvents. E100-NV5™ High Performance Novolac Protective Coating is available in red, black and clear colors. Excellent for most flooring, wall and equipment coating applications where harsh chemicals are attacking concrete surfaces. High performance.

Typical Uses:

- Barrier coating for most corrosive acids, alkalis and solvents
- Horizontal applications
- Secondary Containment areas
- Industrial floors
- Can be applied as a sealer, non slip flooring, Trowel applied contractor just adds silica sand to desired consistency mortar

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
- Resistant to concentrated sulfuric acid (1-98%) in immersion

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 2200 cps	• All Traffic: 24 hours
o Part B 400 cps	• Chemical exposure; 48 hours
o Mixed 1900 cps	• Immersion 10 days
• Pot Life: 20 minutes	

PHYSICAL PROPERTIES

(@77°F (24° C), 7 day ambient cure)

Compressive Strength	ASTM D 695	12,000 PSI
Tensile Strength	ASTM D 638	6,900 PSI
Flexural Strength	ASTM D 790	8,800 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	126 F

CHEMICAL RESISTANCE

SP=splash and spill 6 hours, **SC**= secondary containment 72 hour resistance, **INT**=intermittent immersion 8 hour exposure with clean up
IMM= immersion indefinitely at ambient temperature

ORGANIC ACIDS

Acetic 1-10%	IMM
Battery acid 1-98%	IMM
Chromic 1-30%	INT
HCL 1-37%	IMM
Hydrofluoric 1-40%	INT
Nitric 1-20%	IMM
Oleic	IMM
Phosphoric 1-85%	IMM
Sulfuric 1-98%	IMM

BASES ALKALINES

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

SOLVENTS

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

NOTE: This Chemical resistance chart is only a guide, and Elite Crete recommends the customer test to determine suitability in the field

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