

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

Revised: 4/26/2023 Version: 1.7

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

Description:

E100-NV4™ Novolac Protective Coating is a highly chemical resistant coating for splash and spills of corrosive reagents such as 98% sulfuric acid. Excellent for most flooring, wall, and equipment coating applications where splash and spill chemical 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 concrete, steel, and other substrates
- Resistant to most chemical reagents (splash & spill)
- Provides a tough wearing surface for most industrial traffic
- USDA and CFIA compliant

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

Cure Schedule:

- Colors: Brick red, black, clear
- Viscosity @ 77° F / 24° C
 - Part A: 2300 cps
 - Part B: 400 cps
 - Mixed: 2000 cps
- Pot life: 20 minutes
- Tack free: 6 hours
- Foot traffic: 12 hours
- All traffic: 24 hours
- Chemical exposure: 48 hours

Physical Properties

(@77° F / 24° C, 50% R.H., 7-day ambient cure)

Compressive strength	ASTM D695	9,000 psi
Tensile strength	ASTM D638	6,550 psi
Flexural strength	ASTM D790	8,400 psi
Ultimate elongation		4.2%
Shore D hardness	ASTM D2240	89
Taber abrasion resistance		
CS-17-wheel, 1000 gm load, 500 cycles	ASTM D4060	18 mg loss
Heat deflection temperature	ASTM D648	128° F / 53° C
Reaction to fire	EN 13501-1:2018	B _{FL} -s1

**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:

- 3, 15, and 150 gallon kits

Suggested Storage:

- Store in a temperature and weather-controlled area between 65° F / 18° C and 85° F / 29° C.
- Do not allow to freeze.
- Shelf Life: 1 year from date of manufacture.