

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

Revised: 11/7/2023 Version: 1.8

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.

- 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

Cure Schedule:

- 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
- Acetone
- Butyl Acetate
- Cyclohexane
- Ethanol
- Ethyl Acetate
- Ethyl Alcohol
- Formaldehyde
- Isopropyl Alcohol
- Jet fuel
- Kerosene
- MEK
- Methanol
- Methyl Alcohol
- Rubbing Alcohol
- Wood Alcohol
- 111 Trichloroethane
- 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.