

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 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.

The information herein is general information to assist our customers in determining whether our products are suitable for their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers should inspect and test our products before use to satisfy themselves as to the content and suitability for the applications they intend to use our products for. **Nothing herein shall constitute any warranty expressed or implied, including any warranty of merchantability or fitness for a particular purpose**, nor is any protection from any law or patent to be inferred. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for incidental or consequential damages. © Elite Crete Systems, Inc. 2025 All rights reserved. Made in the USA