

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.

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
 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

- Do not allow to freeze.
- Shelf Life: 1 year from date of manufacture.

Suggested Storage:

- Store in a temperature and weather-controlled area
 between 65° F / 18° C and 85° F / 29° C.

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. 2024 All rights reserved. Made in the USA