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

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Description: E100-NV5™ High Performance Novolac Protective Coating is a highly chemical resistant coating for immersion service subjected to corrosive reagents such as 98% sulfuric acid, nitric acid, and most bases and solvents. Excellent for most flooring, wall, and equipment coating applications where extreme chemical resistance is required.

Typical Uses:

- Barrier coating for most corrosive acids, alkalis, and solvents
- Horizontal applications
- Industrial floors
- Secondary containment areas
- Can be used as a neat, broadcast, or mortar application

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
- Resistant to concentrated sulfuric acid (1-98%) in immersion
- 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: 2200 cps
  - Part B: 400 cps
  - Mixed: 1900 cps
- Pot life: 20 minutes

Cure Schedule

- Tack free: 6 hours
- Foot traffic: 12 hours
- All traffic: 24 hours
- Chemical exposure: 48 hours
- Immersion: 10 days

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

Compressive strength	ASTM D695	12,000 psi
Tensile strength	ASTM D638	6,900 psi
Flexural strength	ASTM D790	8,800 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	130° F / 54° C
Reaction to fire	EN 13501-1:2018	B_{FL} – s1

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		BASES ALKALINES		SOLVENTS			
Acetic 1-10%	IMM	Ammonia 1-25%	IMM	Acetaldehyde	SC	Jet fuel	INT
Battery acid 1-98%	IMM	Ammonium Hydroxide 1-25%	IMM	Acetone	SP	Kerosene	INT
Chromic 1-30%	INT	Black Pulp Liquor	IMM	Butyl Acetate	INT	MEK	SP
HCL 1-37%	IMM	Calcium Hydroxide 1-25%	IMM	Cyclohexane	INT	Methanol	IMM
Hydrofluoric 1-40%	INT	Hydrogen Peroxide 1-30%	IMM	Ethanol	IMM	Methyl Alcohol	IMM
Nitric 1-20%	IMM	Green Pulp Liquor	IMM	Ethyl Acetate	IMM	Rubbing Alcohol	IMM
Oleic	IMM	Sodium Hypochlorite 1-9%	INT	Ethyl Alcohol	IMM	Wood Alcohol	INT
Phosphoric 1-85%	IMM	Sodium Hydroxide 1-50%	IMM	Formaldehyde	INT	111 Trichloroethane	INT
Sulfuric 1-98%	IMM	Potassium Hydroxide all	IMM	Isopropyl Alcohol	IMM	Phenol	IMM

NOTE: This Chemical resistance chart is only a guide. Refer to TD.400 for additional chemical resistance guidelines.

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.

Available Packaging: 3-gal, 15-gal, 150 gal.

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