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

Revised: 11/7/2023 Version: 1.7

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 0
 - Part B: 400 cps 0
 - Mixed: 1900 cps 0
- 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		ENTS
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	lsopropyl Álcohol 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. 2025 All rights reserved. Made in the USA