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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.