

# EPX-NV

## CHEMICAL RESISTANT NOVOLAC EPOXY SYSTEM

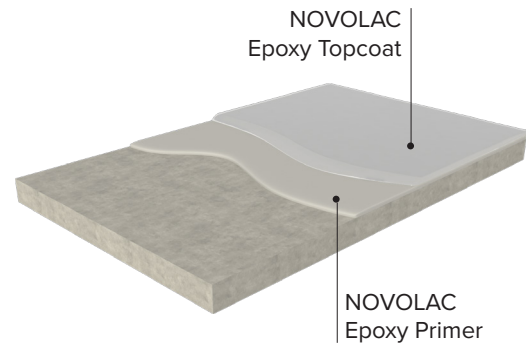
Resinwerks EPX-NV is a solid-color floor industrial coating system designed for environments exposed to significant chemical attack. This application incorporates 2 lifts of Resinwerks Novolac Epoxy (primer and topcoat). Offering excellent protection against a range of acids, solvents and other chemicals, Novolac epoxy is an excellent choice for industrial environments subject to chemical attack. Traction levels may be adjusted depending on the needs of facility.

### Applications

- Battery charging areas
- Shop floors
- Manufacturing
- Dairy production
- Chemical processing

### Features:

- Standard grey only
- Superior chemical resistance
- Low Odor & VOC
- ADA compliant slip coefficient
- Excellent industrial epoxy TC



### Colors & Finishes

Available in standard Grey color only with optional traction additives available for enhanced coefficient of friction.

### System Components

1. **Base-Coat:** NOVOLAC Epoxy applied at a coverage rate of 100 ft<sup>2</sup> per gallon.
1. **Top-Coat:** NOVOLAC Epoxy applied at a coverage rate of 130 ft<sup>2</sup> per gallon.

#### GENERAL SYSTEM PERFORMANCE - SC-100

TEST TYPE		RESULT
Hardness - shore D	ASTM D-2240	80
Impact (in-lbs.)	ASTM D2794	160
Shear Strength	ASTM D1002	1742 PSI
Flammability	ASTM D 635	Self Extinguishing
Abrasion Resistance	ASTM D 4060	46 mg
Tensile Strength	ASTM C-580	4,300 psi
Tensile Elongation	ASTMD-4541	6,175
Compressive Strength	ASTMD-4541	10,850 psi

#### CHEMICAL RESISTANCE TESTING

ASTM D-543 21-DAY SUBMERSION	% WEIGHT GAIN (LOSS)
5% Detergent	.67%
10% NaOH (Sodium Hydroxide)	.52%
50% NaOH (Sodium Hydroxide)	.62%
10% H2SO4 (Sulfuric Acid)	.87%
70% H2SO4 (Sulfuric Acid)	1.47%
10% HCL (Hydrogen Chloride)	.66%
5% Acetic Acid	2.20%
10% Acetic Acid	3.96%
Xylene	.06%
Toluene	.15%
MEK	12.28%
EB	.45%
Ethanol	1.67%
Water	.66%

### For Professional Use Only

Please reference all product Technical Data and Material Safety Data Sheets prior to use. Mock-ups are strongly recommended to validate appearance and performance prior to use.

### SURFACE PREPARATION

Ensure substrate to be coated is clean, dry, and in sound condition. All laitance, curing compounds, concrete hardeners, and other surface contaminants must be removed. Prepare concrete in accordance with ASTM D 4259-83. Mechanical shot blasting or planetary grinding is recommended to achieve a surface profile of ICRI CSP 2-3. Surface to be coated must be completely porous, thoroughly vacuumed, and free of excessive dust & contaminants.

### MOISTURE IN CONCRETE

Concrete slabs should be tested prior to application for elevated moisture vapor emission levels. Resinwerks recommends ASTM F2170-19 standard for determining relative humidity in concrete slabs using RH probes. Moisture level results will determine recommended mil thickness for application.

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### DE-GREASING OF CONTAMINATED SUBSTRATES

For concrete substrates containing oil, animal fats, or other carbon based contaminants, slabs should be de-greased appropriately using an enzymatic based concrete de-greasing agent. Multiple applications may be required depending on the level of contamination.

### TREATMENT OF JOINTS & CRACKS

Prior to installation of any Resinwerks primer, all joints, cracks and other substrate irregularities must be addressed. For more information on specific joint treatment procedures, please reference Resinwerks joint-treatment guidelines.

### COVE BASE

For projects requiring a perimeter vertical cove base, please reference Resinwerks cove base installation guidelines or contact your local Resinwerks representative for more information.

### COATING APPLICATION

#### 1. Primer: NOVOLAC Epoxy

- **Mixing:** Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 60°F(15.6°C)-80°F(26.7°C). This is especially important for NOVOLAC as it is a thicker viscosity coating.
- Thoroughly mix both part A and Part B separately prior to mixing. Mix by volume, 2-Parts A to 1-Part B for 2-3 minutes.
- Material will have a thicker viscosity - especially when stored in cold environments. Please take special care to store at recommended minimum 60°F(15.6°C)-80°F(26.7°C).
- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee depending on desired thickness.
- Recommended Coverage rate for 100% Solids NOVOLAC Epoxy is 100-130 Ft<sup>2</sup> per gallon.
- Immediately back-roll smooth with a 3/8" nap roller. Depending on ambient environmental and slab temperatures, material will be dry to the touch and ready for subsequent coats within approximately 6-8 hours following application
- Please reference the Novolac Epoxy Technical Product Data Sheet or contact Resinwerks directly for additional application specifics.

#### 2. Top-Coat: NOVOLAC Epoxy

- **Mixing:** Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 60°F(15.6°C)-80°F(26.7°C). This is especially important for NOVOLAC as it is a thicker viscosity coating.
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#### Important:

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. Avoid breathing vapors, it is strongly recommended that respirators are worn. Prolonged or repeated skin contact can cause slight skin irritation. All epoxies have the potential of causing skin irritations or allergic reactions. Be careful not to get on skin, clothes or in eyes. Gloves are strongly recommended. If splashed in the eye, flush with warm water and contact a physician if blurring persists.

Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

Resinwerks recommends the use of slip-resistant additives in all coating systems that are subject to heavy foot traffic and especially those within wet or oily environments It is the end-user's responsibility to provide flooring that meets current safety standards and local coefficient of friction requirements. Resinwerks nor any of its distributors are responsible for injury resulting from any slip and fall incident.

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