

NOVOLAC EPOXY



TECHNICAL DATA SHEET

RESINWERKS NOVOLAC EPOXY IS A HIGH-PERFORMANCE 2-COMPONENT RESINOUS FLOOR AND WALL COATING THAT PROVIDES SUPERIOR CHEMICAL RESISTANCE. Offering excellent resistance to a range of acids, solvents and other chemicals, Resinwerks Novolac epoxy is an excellent choice for industrial environments subject to chemical attack. Novolac is highly durable and may be used as a topcoat in solid color, broadcast and hybrid systems. It may be used in conjunction with blended aggregates for a more textured and impact-resistant finish.

USES:

- » Secondary Containment
- » Industrial & Manufacturing
- » CBD Extraction & Processing
- » Battery Charging Areas
- » Auto & Equipment Service

ADVANTAGES:

- » Superior chemical resistance
- » High Gloss self-leveling finish

PACKAGING & SHELF-LIFE

Novolac Epoxy is available in the following kits:

- » 6-gallon kits (4-gallons part A + two 1-gallon units part B)

Shelf-Life::

- » 12-months factory sealed and stored at room temperature.

SUGGESTED APPLICATION:

Suitable Substrate(s): Concrete

- » Apply at 8-30 mil thickness. May be used as a primer or in conjunction with another Resinwerks primer.

CHEMICAL RESISTANCE - Cure @ 72°F for 7-Days	
REAGENT	% WEIGHT GAIN (LOSS) 28 DAYS
Xylene:	.05
Toluene:	1.32
Ethanol:	4.59
70% Sulfuric Acid	0.11
98% Sulfuric Acid	0.27
50% Sodium Hydroxide	(0.25)
1,1,1 Trichloroethane	1.07

GENERAL PRODUCT INFORMATION

- Color:** Grey
- Solids Volume:** 100%
- V.O.C.:** 0 grams per liter
- Pot-life:** 20 Minutes @ 72° F
- Mix-Ratio:** 2-Parts A to 1-Part B by volume.
- Mix Viscosity:** 2-Parts A to 1-Part B by volume
- Cure Schedule:** 72° F @ 50% R.H.
 - To touch: 8-Hours
 - To re-coat: 6-Hours Minimum
48-Hours Maximum
 - Foot Traffic: 16-Hours
 - Heavy Traffic: 3-5 days
- Clean-up:** Acetone / MEK
- Application Temp:** 60°F(15.6°C) - 90°F(32.2°C)
- Environment:** For Interior Use Only

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Hardness - shore D	ASTM D-2240	80
Impact (in-lbs.)	ASTM D2794	16
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	ASTM D695	10,850 psi
Adhesion	ASTMD-4541	500+ PSI concrete fracture

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SKUs:	170-0000-01-A:	Grey Part A 1-gal
	170-0000-04-A:	Grey Part A 5-gal
	170-0000-01-B:	Part B Hardener 1-gal
	170-0000-05-B:	Part B Hardener 5gal

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 is recommended to achieve a surface profile of ICRI CSP 3-5. Surface to be coated must be completely porous 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. For slabs exhibiting elevated moisture levels in excess of 75% RH, Resinwerks™ Vapor Barrier Epoxy should be substituted as a primer. For more information, please contact your Resinwerks technical representative.

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. For more information, please contact your Resinwerks technical representative.

TREATMENT OF JOINTS & CRACKS

Prior to installation of any Resinwerks floor coating, all joints, cracks and other substrate irregularities must be addressed. For more information on specific joint treatment procedures, please contact your Resinwerks technical services representative.

MIXING INSTRUCTIONS:

- » 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).
- » Thoroughly mix both part A and Part B separately prior to mixing. Mix by volume, 2-Parts A to 1-Part B for a minimum of 2-3 minutes.

APPLICATION INSTRUCTIONS

- » Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee depending on desired thickness. 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. Contact Resinwerks directly for additional application specifics.

LIMITATIONS

- » Do Not Freeze
- » Do not apply over concrete experiencing ASR
- » Do not apply to new slabs < 28-days old
- » Do not apply to concrete < 3500 PSI compression strength
- » Do not apply product when ambient or room temperature is below 60°F or over 90°F or if the relative ambient humidity is above 85%.
- » DEW POINT: Do not apply when dew point is within 5°F of the ambient temperature.

MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are dependent on an adequate routine maintenance program designed specifically for the installed wear surface. Resinous floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. Recommended maintenance programs consist of frequent and thorough cleaning utilizing a neutral PH cleaner. The frequency of washing will vary depending on floor usage type, traffic and age. Please contact your local Resinwerks technical representative for more information.

NOTES

Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of Epoxy products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

TECHNICAL ASSISTANCE

PHONE: 720-484-5160

WEB: www.resinwerks.com