



NVE-830 V

NOVOLAC EPOXY - VERTICAL COATING

DESCRIPTION AND USES

The Citadel® NVE-830 V Novolac Epoxy Vertical is designed for application to vertical surfaces. It will provide the same level of protection and chemical resistance of the other Citadel NVE-830 Novolac Epoxy products to walls and other vertical surfaces.

PRODUCT FEATURES AND BENEFITS

NVE-830 V is resistant to a wide range of chemicals. For more detailed chemical resistance information, refer to the Product Recommendation Guide.

PRODUCTS

NVE-830 V is available in three standard colors. Custom colors are available upon request. Refer to the Citadel color chart. Product codes listed below are 4-Gallon Kits. *Made To Order Only. Contact your Rust-Oleum Flooring Representative for more information. Mixing ratios are shown on the product labels.

SKU	DESCRIPTION
404374	Armor Gray
404375	Dunes Tan
404376	Light Gray
404377	Super Light Gray*
404378	Dark Gray*
404379	Navy Gray*
404380	Safety Red*
404381	Safety Yellow*
404382	Tile Red*
404383	Safety Blue*
404384	Safety Green*
404385	Silver Gray*
404386	Greige*
404387	Safety Orange*
404388	White*
404389	Black*
404390	Custom*

COMPANION PRODUCTS

- Zinsser® Block Filler 2X
- TurboKrete® Multi-Purpose Concrete Repair and Adhesive

TYPICAL USES

NVE-830 V coating is used where one or more of the following properties are required:

- Splash and spill corrosion resistance
- Easy to clean and maintain
- Aesthetically pleasing surfaces

NVE-830 V may be used directly over prepared and sealed (Zinsser Block Filler 2X) concrete, or as a topcoat for other Citadel vertical toppings.

TYPICAL APPLICATIONS

Primary containment
 Secondary containment
 Sumps
 Trench drains
 Warehouse and storage areas
 Manufacturing areas
 Boiler plants
 Animal treatment areas
 Tank farms
 Wineries and breweries
 Bottling and beverage industries
 Chemical, meat packing, poultry and dairy industries
 Food processing plants
 Pharmaceutical and chemical laboratories
 Industrial lunchrooms and dressing rooms
 Wastewater treatment plants

PRODUCT APPLICATION

SURFACE PREPARATION

Concrete must be clean and in good, sound condition. Remove all loose unsound concrete or previous coatings. Voids in the concrete should be filled. Smooth concrete surfaces must be profiled using a suitable method. Concrete, ambient, and material temperatures should be 65-90°F (18-32°C) at time of application. Concrete must be visibly dry at time of application.

If needed, TurboKrete Multi-Purpose Concrete Repair can be used to fill small voids or bug holes in the concrete. NVE-830 V can be applied directly to prepared concrete. Although NVE-830 V can be applied directly to concrete or masonry surfaces, we recommend surfaces be primed with Zinsser Block Filler 2X when coating, rougher, more porous surfaces, like concrete block.

COVERAGE

10-16 mils (250-400μ)
 100-160 sq.ft./gal. (2.5-3.9 m²/l)

MIXING

Material temperature should be between 65-90°F (18-32°C) prior to mixing.

Hand mixing is not adequate. You must combine the base and activator by power mixing using either a 3" Jiffler Mixer or similar. Transfer as much activator as possible into the base component. Use an up and down motion along the sidewalls of the container to ensure that all of the components are thoroughly mixed together. Mix at 500-750 rpm for 1-3 minutes. Do not over mix or use higher speeds. This can introduce air into the coating causing small bubbles in the finish.

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PRODUCT APPLICATION (cont.)

MIXING (cont.)

Immediately after mixing, pour the activated material into a roller pan. The material is viscous and may require a stir stick be used to transfer all the material to the roller pan.

Mixing ratio: 3:1, Part A : Part B

APPLICATION

Apply only when air, surface and material temperatures are between 65-90°F (18-32°C).

Apply by roller using a $\frac{3}{8}$ " or $\frac{1}{2}$ " lint-free, phenolic core roller cover. Work out of a roller pan. This material has a short pot life, so working time will be limited to 15-20 minutes. Do not delay applying the product once it has been mixed. Typical application rate is two coats at 8-12 mils per coat.

Apply in sections no larger than 4' x 4'. Begin the first pass with a fully loaded roller in an upward vertical direction. Reload roller and begin second pass adjacent to and at the top of the previous pass and apply in a downward vertical direction. After completing several vertical passes, finish the section by re-rolling the area, without re-loading the roller, in a horizontal direction from top to bottom. Apply material to the next section in the same manner. This application method will provide uniform film thickness.

Avoid excessive rolling or back rolling over areas which have already set up for several minutes. This will increase the risk of roller marks and formation of air bubbles. Avoid application in direct sunlight to help prevent bubbles caused by outgassing.

RECOAT TIME

Allow to cure adequately for 8-10 hours at 70°F (21°C). If recoat time exceeds 48 hours, coating must be sanded prior to recoating.

FULL CHEMICAL RESISTANCE

Full chemical resistance is developed in 72 hours.

CLEAN UP

Xylene can be used to remove material from equipment if it is cleaned before the material has started to set up; otherwise, stronger solvents such as MEK will be necessary.

PRODUCT APPLICATION (cont.)

SHELF LIFE

5 years.

SAFETY

NVE-830 V contains amine curing agents. Avoid skin contact. In case of eye contact or ingestion, contact a physician immediately. In case of skin sensitivity to these materials, use protective clothing and gloves.

SAFETY DATA SHEETS

Safety Data Sheets are available upon request. It is strongly recommended that they be read by all persons handling NVE-830 V.

If there are any questions on the use of this product, please consult our technical service department.

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PHYSICAL PROPERTIES

		NVE-830 V
Resin Type		Novolac Epoxy
Pigment Type		Varies depending on color
Weight*	Per Gallon	10.0-10.3 lbs.
	Per Liter	1.20-1.23 kg
Solids*	By Weight	100%
	By Volume	100%
Volatile Organic Compounds*		<140 g/l (1.16 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		10-16 mils (250-400μ)
Wet Film to Achieve DFT		10-16 mils (250-400μ)
Practical Coverage at Recommended DFT		100-160 square feet per gallon (2.5-3.9m ² /l)
Mixing Ratio		3 : 1 base to activator by volume
Induction Period		None
Pot Life @ 70-80°F (21-27°C) & 50% Relative Humidity		15-20 minutes
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Initial Cure	8-10 hours
	Recoat	10-48 hours
	Full Cure**	72 hours
Shelf Life		5 years
Flash Point		>185°F (85°C)
Safety Information		SEE THE PRODUCT SAFETY DATA SHEET (SDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION

Calculated values are shown and may vary slightly from the actual manufactured material.

*Activated material

**Coating achieves its full physical and chemical resistant properties.

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.