

DUR-A-GARD NOVOLAC

DESCRIPTION

DUR-A-GARD NOVOLAC epoxy is a pigmented two component, performance topcoat over Dur-A-Gard epoxy coatings and is designed to provide protection against chemicals, acids, solvents, and high temperatures.

BENEFITS

- Superior Chemical Resistance
- Superior Solvent Resistance
- Superior Stain Resistance
- High Heat Distortion Temperature
- Low odor, low VOCs

LIMITATIONS

This product is best suited for application in temperatures between 60°F and 90°F. Substrate must be clean, sound and dry.

DUR-A-GARD NOVOLAC CANNOT BE USED AS A GROUT COAT FOR BROADCAST SYSTEMS (PINHOLES WILL OCCUR). USE DUR-A-GLAZE NOVOLAC AS A GROUT COAT FOR BROADCAST SYSTEMS.

DUR-A-GAR NOVOLAC is meant to be a final topcoat and should not be top coated with any other performance topcoat.

TYPICAL USES

DUR-A-GARD NOVOLAC is recommended as a smooth performance topcoat in secondary containment applications to provide improved chemical resistance at the surface. Some typical areas of application are:

- Pharmaceutical Plants
- Secondary Containment
- Chemical Storage Warehouses
- Metal Plating and Pickling Rooms
- Acid Cleaning Bath Areas
- Pulp & Paper Mills
- Battery Storage

COLORS

DUR-A-GARD NOVOLAC is available in 5 standard colors, Medium Grey, Slate Grey, Tile Red, Charcoal Grey, and Concrete Grey.

PACKAGING

DUR-A-GARD NOVOLAC EPOXY is available in 1 gallon cans and 5 gallon pails. Store in a dry area at or above 55°F. Avoid excessive heat. The shelf life is 1 year in unopened original containers.

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be profiled, clean, sound, and dry. Please refer to the master Surface Preparation Guide on our website for more information.

APPLICATION METHOD

Note: Apply as a performance top coat over a Dur-A-Gard epoxy smooth coating.

Mixing

Substrate must be primed with DUR-A-SHIELD II, DUR-A-GLAZE #4 WB, or DUR-A-GLAZE TIE COAT II. DUR-A-GARD NOVOLAC Resin and Novolac Hardener must be premixed prior to combining. Mix 1 part Hardener to 2 parts Resin by volume. Scrape the sides of the Hardener and Resin containers to ensure a proper reaction occurs. Use a slow speed 450 RPM drill with a jiffler paddle. Keep the paddle below the surface to avoid air entrapment. Mix for 2 minutes to ensure a proper mix.

Application as a Performance Top Coat Coating

1. Pour a 6 inch ribbon of material across the floor.
2. Use a Notch squeegee to spread material at desired spread rate. The typical spread rate is between 100 and 200 SF/gal
3. Back roll the material against the squeegee lines with a high quality 3/8" nap roller
4. Cross roll the material side to side overlapping the previous pass with half the roller width.

JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website.

MOISTURE CONCERNS

Please refer to the Floor Evaluation Flow Chart in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

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TECHNICAL INFORMATION

Mix ratio, by volume	1 part hardener to 2 parts resin
Pot Life at 70°F	30 minutes
Tack Free Time at 70°F (ready for re-coat)	8-10 hours
Cure Time at 70°F	24 hours
Full Cure Time (full chemical resistance)	7 days @ 70°F
Minimum Temperature for Application	60°F
Cured Film Thickness	8mils @ 200 sq.ft./gallon - 16 mils @ 100 sq. ft./gallon
Hardness, Shore D	86 – 90
Heat Resistance Limitation	250°F (122°C)

Physical Property	Test Method	Result
Compressive Strength	ASTM C-579	14,000 psi
Flexural Strength	ASTM C-580	5,500 psi
Tensile Strength	ASTM C-307	2,500 psi
Flexural Modulus of Elasticity	ASTM D-790	1.95 x 10 ⁶ psi
Bond Strength	ACI-403-PP	420 psi (concrete fails)
Indentation	MIL-D 3134-F	No Indentation
Water Absorption	ASTM D-570 ASTM D-696	0.05%, 24 hours in water 2.2 X 10 ⁻⁵ in/in/°F
Abrasion Resistance C-10 Wheel, 1,000 gm load, 1,000 cycles	ASTM D-1044	0.075 gm weight loss
Flammability	ASTM D-635	Self-Extinguishing. Extent of burning less than 0.35 in.
VOC Content		8.5 g/l
Coefficient of Friction	ASTM D-2047	>0.6

CHEMICAL RESISTANCE

Please refer to Novolac on the master Chemical Resistance Chart on our website for actual resistance to specific chemicals/reagents.

CLEANING

This product is considered a low maintenance flooring solution; however, certain service environments do require certain cleaners. Please refer to master Cleaning Guide on our website.

CAUTION

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.