

DUR-A-GLAZE NOVOLAC

DESCRIPTION

DUR-A-GLAZE NOVOLAC epoxy is a premium quality protective coating and aggregate binder designed to provide the optimum protection against chemicals, acids, solvents, high temperatures, etc. Tests and in-the-field experience on floors indicate that DUR-A-GLAZE NOVOLAC epoxy is resistant to most solvents and most organic and inorganic acids. In addition to the superior chemical resistance, heat distortion is also greatly improved. It resists high heat better than a high quality aromatic amine hardener like CR-4. Intermittent exposure up to 250°F (122°C) has little effect.

BENEFITS

- High Heat Distortion Temperature
- Superior Chemical Resistance
- Superior Solvent Resistance
- Superior Stain Resistance

COLORS

DUR-A-GLAZE NOVOLAC is typically clear but can be pigmented by adding 20% DUR-A-GARD resin. This is referred to as "NOVOLAC SHOP FLOOR" resin, see standard color chart.

TYPICAL USES

DUR-A-GLAZE NOVOLAC is recommended for SHOP FLOOR epoxy flooring and DUR-A-CRETE epoxy flooring. It may also be used as a final topcoat for other epoxy binders to provide improved chemical resistance at the surface. Some typical areas of application are:

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

CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to master "**Chemical Resistance Chart**" for actual resistance to specific chemicals/reagents.

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be profiled, clean, sound, and dry. Substrate must be primed with DUR-A-SHIELD, DUR-A-POXY HIGH GLOSS, or DUR-A-GLAZE TIE COAT. Please refer to the master "**Surface Preparation Guide**" for more information.

APPLICATION METHOD

DUR-A-GLAZE NOVOLAC is applied with a brush, roller, squeegee or trowel. See SHOP FLOOR, DUR-A-QUARTZ, and DUR-A-CRETE application instruction sheet for complete instructions. As a coating, DUR-A-GLAZE NOVOLAC is applied at 200 Sq Ft per gallon to yield a dry film thickness of 8 mils per coat.

LIMITATIONS

- This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound, and dry.
- Due to the rapid setting characteristics, smaller batches of NOVOLAC should be mixed at a time.
- Full chemical resistance can be expected after a cure period of 7 days at 70°F.
- DUR-A-GLAZE NOVOLAC is not recommended as a topcoat for light colored DUR-A-QUARTZ or DUR-A-CHIP floors because it will amber.

PACKAGING

DUR-A-GLAZE NOVOLAC Epoxy is available in 1- gallon cans, 5-gallon pails, and 50-gallon drums.

STORAGE

Store in a dry area at or above 55°F. Avoid excessive heat. The shelf life is 1 year in unopened original containers.

DUR-A-GLAZE NOVOLAC

TECHNICAL INFORMATION

Solids Content, clear no pigment	100%
Mix ratio, by volume	1 part hardener to 2 parts resin
Pot Life at 70°F	15 20 minutes
Tack Free Time at 70°F (ready for re-coat)	4 - 5 hours
Cure Time for Traffic at 70°F	24 hours
Minimum Temperature for Application	55°F
Cured Film Thickness	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-4060	0.075 gm weight loss
Flammability	ASTM D-635	Self-Extinguishing. Extent of burning less than 0.35 in.

GUIDE SPECIFICATIONS

This product is part of the DUR-A-FLEX family of polymer systems. Please contact DUR-A-FLEX for complete three part guide specs.

CLEANING

This product is to be considered a low maintenance flooring solution, however, certain textures and service environments require specific procedures. Please refer to master "Cleaning Guide".

DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please contact DUR-A-FLEX for actual drawings.

MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation. Please refer to the master "Moisture Guidelines" for more information.

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.