

DUR-A-GLAZE® GRIND AND SEAL

IMPORTANT! Read these instructions carefully several days prior to starting your work. Seek answers to any questions you may have before you begin. DUR-A-FLEX, Inc. maintains a Technical Staff that will be glad to answer your questions and give you advice pertaining to your particular installation.

DUR-A-GLAZE GRIND AND SEAL is a 100% solids epoxy concrete floor sealing system designed by Dur-A-Flex to enhance and protect prepared concrete substrates without adding color or a design, allowing the look of sealed concrete to be showcased. DUR-A-GLAZE GRIND AND SEAL consists of a clear DUR-A-GLAZE #4 epoxy primer, Optional clear DUR-A-GLAZE #4 epoxy body coat, and finished with a clear, wear / UV resistant ARMOR TOP urethane topcoat.

NOTE: DO NOT apply at an ambient or surface temperature below 60°F or above 80°F

STORAGE CONDITIONS

Store all components in a cool, dry area with plenty of ventilation. Do not allow resins to freeze. Solidified (crystallized) resin must be heated above 100°F to properly melt crystals. The shelf life of all products used to make this system is 12 months.

SURFACE PREPARATION / JOINT GUIDELINES

Use a surface grinder or other mechanical means to remove any damaged, contaminated, or unsightly concrete (grind to white concrete) and achieve a CSP of 2, follow by surface grinding with 80-150 grit to remove any witness lines from the concrete surface. Any scoring lines left behind will be visible through the clear coating. **Grind or abrade until the visual quality is representative of how the finished product is desired to appear.** Vacuum all dust and debris, and ensure the surface is clean, dry, and free of all contaminants before you begin applying the system. Always honor moving joints as part of the preparation step. Refer to the master Surface Preparation and Joint Guidelines Guide on our website for more information

MIXING AREA

Select a convenient mix area as close as possible to the application area and protect the surface from spills by covering with a sheet of plastic and an absorbent layer of cardboard. Be generous with the amount of space allocated for this function. Do not mix this product in direct sunlight or when ambient temperatures exceed 90°F. Exposure to high temperatures will

greatly reduce the working time of this product. **DO NOT MIX UNTIL READY FOR IMMEDIATE USE.**

APPLICATION

DUR-A-GLAZE GRIND AND SEAL is applied as a primer (resin/ hardener), optional body coat (resin/ hardener), and a topcoat (resin/ hardener). DUR-A-GLAZE GRIND AND SEAL has a finished nominal thickness of 8-13 mils.

LABOR REQUIREMENTS - Best practices are to assign one person to each job – do not multi-task:

- 1 person mixing / running mixed pails
- 1 person squeegee
- 1 person cross-rolling

NOTE: Additional manpower will be required for complex installations requiring cut-in work or applications around drains.

PRIMING

EQUIPMENT LIST

- 5 gal mixing pails
- Mix and Measure pails
- Solvent
- Tape
- 450 RPM High-Speed / High-Torque Drill
- 5" Jiffler Mixing Blade
- 12" Flat Squeegee
- 3/8" inch nap roller
- Spiked Shoes
- Rubber/Nitrile Gloves
- Safety Glasses

Mark the area to be coated with tape. Pour 1 part DUR-A-GLAZE #4 HARDENER into a mixing pail then add 2 parts DUR-A-GLAZE #4 RESIN – when pouring from measuring containers be sure to scrape the inside of the pails to use as much of the material as possible. Use the measuring pail to scrape the mix stick and never scrape mix stick on the side of the mix pail. Mix for 2 minutes using a jiffler-type mixer at 450 rpm. Apply a ribbon of mixed Dur-A-Glaze #4 material starting at the far side of the installation area and work towards an exit.

Wearing spiked shoes, use flat squeegee to evenly spread the material across the surface area at approximately 300 sq ft per mixed gallon (5 mils), joining batches together along a wet edge. After spreading the Dur-A-Glaze #4, follow by back-rolling and cross-rolling with a 3/8" nap roller.

NOTE: DUR-A-GLAZE #4 "Regular" should be used for the primer and optional body coats (Dur-A-Glaze #4 Water Clear may be used with higher install temperatures) - Do not use "Fast" Hardeners as they will not bond properly, will yellow very quickly, and could produce pinholes.

BODY COAT *(optional)*

EQUIPMENT LIST

- 5 gal mixing pails
- Mix and Measure pails
- Solvent
- Tape
- 450 RPM High-Speed / High-Torque Drill
- 5" Jiffler Mixing Blade
- 12" Flat Squeegee
- 3/8" inch nap roller
- Spiked Shoes
- Rubber/Nitrile Gloves
- Safety Glasses

Repeating the steps used for the primer application Pour 1 part DUR-A-GLAZE #4 HARDENER into a mixing pail then add 2 parts DUR-A-GLAZE #4 RESIN – when pouring from measuring containers be sure to scrape the inside of the pails to use as much of the material as possible. Use the measuring pail to scrape the mix stick and never scrape mix stick on the side of the mix pail. Mix for 2 minutes using a jiffler-type mixer at 300 – 450 rpm. Apply a ribbon of mixed Dur-A-Glaze #4 material starting at the far of the installation area and work towards an exit. Wearing spiked shoes, use flat squeegee to evenly spread the material across the surface area at approximately 300 sq ft per mixed gallon (5 mils), joining batches together along a wet edge. After spreading the Dur-A-Glaze #4, follow by back-rolling and cross-rolling with a 3/8" nap roller.

NOTE: DUR-A-GLAZE #4 "Regular" should be used for the primer and optional body coats (Dur-A-Glaze #4 Water Clear may be used with higher install temperatures) - Do not use "Fast" Hardeners as they will not bond properly, will yellow very quickly, and could produce pinholes.

TOPCOAT

EQUIPMENT LIST

- 2 gal Mixing Pails
- 18" Wide Paint Tray
- 18" Long 3/8" Nap Roller
- 750 RPM High-Torque Drill

- 3" Jiffler Blade
- Paint Stir Stick
- Spiked Shoes
- Rubber/Nitrile Gloves
- Safety Glasses

ARMOR TOP is typically applied using the dip and roll method with an 18" long 3/8" nap roller.

Pour 1 kit of ARMOR TOP HARDENER into a 5 gallon pail and add 1 kit of ARMOR TOP RESIN, mix using a 750 RPM drill with a 3" Jiffler blade for 30 seconds. If specified, slowly add ARMOR TOP GRIT and continue mixing for an additional 1 minute. Pour a small amount into a paint tray that is large enough to accommodate an 18" roller.

Dip roller into filled paint tray and roll off excess. Apply two 8-10 ft long paths left to right then right to left. Re-wet roller and using "W" shaped crosses and/or up & down passes. Roll material until uniform. A final cross-roll (use a dedicated person to cross-roll in order to avoid any roller lines) is necessary to even out roller lines and should be completed within 10 minutes of starting application.

NOTE: Occasionally re-mix Armor Top in paint tray and mixing pail with a paint stir stick to prevent settling of the grit - this will aid in eliminating visible roller lines in the finished coating.

Armor Top Kit Spread Rates

| | Standard | LH |
|-----------------------|-----------------|-----------------|
| Gloss Clear (w/grit) | 575 sq ft / kit | 650 sq ft / kit |
| Gloss Clear (no grit) | 550 sq ft / kit | 625 sq ft / kit |
| Satin Clear (w/grit) | 775 sq ft / kit | N/A |
| Satin Clear (no grit) | 750 sq ft / kit | N/A |

NOTE: Do not apply thicker than 3-4 mils wet or leave excess material pooled on the floor as it may lead to blistering.

IMPORTANT: Application of Armor Top is only recommended if the floor temperature and materials are between 60°F and 80°F. DO NOT APPLY if The ambient humidity is greater than 80% RH standing moisture is present - The floor temp is less than 5°F above the dew point - Concrete Insitu (ASTM F2170) is above 75%.

CURING: Allow the top coat to cure for 8-12 hours depending on temperature/relative humidity (curing is slower if RH is less than 30%) Use LH formula below 30% RH. Once cured, it is safe to return to foot traffic, return to general service after 24 hrs, and will feature full chemical and abrasion resistance in 5-7 days at 70°F.

NOTE: Use DUR-A-SOLVE or XYLENE for clean-up of tools and equipment while material remains uncured

IMPORTANT!

Before using DUR-A-FLEX products, read and understand its accompanying Safety Data Sheet.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT **DUR-A-FLEX.COM** FOR THE LATEST VERSION

CAUTION! As with all chemical products, individuals may have different reactions to exposure to specific products. This is dependent upon many factors, including the individual's personal characteristics, the size of the installation, the ventilation available, the intensity of the exposure or the length of the exposure. Individuals may experience discomfort during the installation process of one product, but not another.

In some cases this is experienced as a skin irritation and in others it is experienced as an inhalant irritation. Typically, it disappears once the exposure is eliminated. In some cases people can become "sensitized" to a product and experience the discomfort every time there is exposure without Personal Protective Equipment ("PPE").

To protect yourself from various exposures or discomfort during the mixing and application of our products, we recommend covering exposed skin including, using gloves, long sleeves, safety glasses and a respirator such as the 3M 8577 P95 Universal Disposable Carbon Respirator or a cartridge respirator.

Use only as directed. KEEP OUT OF REACH OF CHILDREN.

Do not reseal moisture-contaminated hardener. This will result in carbon dioxide generation or possible violent rupture of container.