

## **REFLEXIONS Designer Flooring**

**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.

### **SURFACE PREPARATION**

Surface must be sound, dry and perfectly clean, free of all oil, grease, detergent film, sealers and/or curing compounds. For most applications, grinding to a CSP concrete surface profile of 2-3 is appropriate. (Grinding is the only recommended method.) Please refer to the DUR-A-FLEX Surface Preparation Guide on our website for more information. No epoxy coatings should be applied unless surface temperature is a minimum of 5 degrees F above dew point. See Dew Point Calculation Chart on our website for detailed instructions.

NOTE: For each application of material and before mixing, mark your batches to ensure you achieve your spread rate targets. This is best accomplished by dividing your target spread rate by the width of the area being coated (or your planned wet edge). Example: If your spread rate is 100 square feet and your area is 20 feet wide you would make a mark every 5 feet (100 divided by 20 = 5).

NOTE: If applying over Elast-O-Coat, apply a 8 – 10 mil coat of Dur-A-Gard or Dur-A-Gard 50/50 – do not use Shop Floor or Dur-A-Glaze #4.

### **MIXING AREA**

Select a convenient mix area and protect the surface from spillage by covering with a layer of cardboard and/or sheet of plastic. Be generous with the amount of space you allocate for this function. The more comfortably your mixer works, the less likely you are to have a “mix error”. Make ready all necessary tools, mix and measure containers, etc. **DO NOT MIX ANY EPOXY UNTIL READY FOR IMMEDIATE USE.** Once hardener and resin are combined, it must be used without delay. Working time is dependent on choice of hardener, size of batch, time to place on floor and temperature of floor and product. Apply masking tape to wherever coating is intended to stop. To obtain neat, straight, chip resistant edges at termination points and/or drains, a “keyed edge” must be installed.

### **PIGMENT MIX GUIDE (per 12 oz. of pigment)**

Product	Mix Size(gal)	SF/Gal	SF/Mix
MVP Primer	1.50	100	150
WB Primer	1.25	200	250
Glaze #4 (reg. and WC), Ultra-Clear	1.50	100	150

**NOTE: The opacity of the coating will vary depending on the pigment color selected, the applied thickness, and the color on the substrate.**

### **1. APPLICATION METHOD**

#### **PRIMING**

All surfaces must be primed with DUR-A-GLAZE WB as soon as the surface has been prepared. The primer must be tinted as this will become very important to the final appearance of the floor. Because the pigments used in REFLEXIONS floor systems are translucent, the pigments reflect light rather than absorb it therefore the primer you use will affect the final color of the floor system. Dur-A-Flex recommends using the same color pigments in the primer as in the basecoat to make it easier to standardize the final color selection.

- Measure out 1 gallon of DUR-A-GLAZE WB hardener and 1 quart of DUR-A-GLAZE #4 resin.
- Add 12 oz. ReFLEXions pigment to resin and mix for 2 minutes.
- Pour a 4 to 6 inch “ribbon” of blended epoxy onto the floor, typically along the far wall or a joint. Recommended spread rate of 200 Sq Ft per one gallon mix.
- Apply with a 1/8” notched squeegee, then immediately back roll and cross roll with a high quality 3/8” nap roller cover. Be sure to remove any impurities as you see them. It is much harder to cut or grind them out after the product has cured.
- Allow to cure for a minimum of 8 hours.

#### **BASECOAT**

**The basecoat can be applied in two methods:**

- A. Hand Trowel
- B. Squeegee / Back-roll

#### **A. Hand Trowel Method**

- Measure out 1/2 gallon DUR-A-GLAZE #4 Hardener and 1 gallon DUR-A-GLAZE #4 Resin. (NOTE: For extended working time, and for use at ambient temperatures of 80° F or higher, DUR-A-GLAZE #4 WATER CLEAR Hardener may be used in place of regular DUR-A-GLAZE #4 Hardener.)
- Add 12 oz. ReFLEXions pigment to resin and mix with a

slow speed power drill with a Jiffler mixing blade for 2 minutes. Always scrape the sides and bottom of the mixing bucket to assure thorough blending.

- Pour a 4 to 6 inch “ribbon” of blended epoxy onto the floor. DUR-A-GLAZE #4 is typically applied at 80 Sq Ft per gallon to yield 20 mils WFT.
- Holding a “pool” trowel at a low angle, apply light pressure on the trowel to spread the ribbon from side to side and working the epoxy towards you. Make a few passes with the trowel and you will notice the pigments start to shift and move. There is no need to “over-work” the epoxy as the pigments will create their own effects. **Application of the basecoat thinner than 16 mils in random areas, with the trowel, may allow the primer coat to show through to create a different effect.**
- Continue pouring 4-6 inch ribbons and working the material from side to side with the trowel.
- Allow to cure 8 – 14 hours prior to applying Armor Top topcoat.

#### **B. Squeegee / Back-roll Method**

- Measure out 1/2 gallon DUR-A-GLAZE #4 Hardener and 1 gallon DUR-A-GLAZE #4 Resin. (NOTE: For extended working time, and for use at ambient temperatures of 80° F or higher, DUR-A-GLAZE #4 WATER CLEAR Hardener may be used in place of regular DUR-A-GLAZE #4 Hardener.)
- Add 12 oz. ReFLExions pigment to resin and mix for 2 minutes.
- Pour a 4 to 6 inch “ribbon” of blended epoxy onto the floor (typically along the far wall or a joint). DUR-A-GLAZE #4 is typically applied at 80 Sq Ft per gallon to yield 16-20 mils WFT.
- Apply with a 3/16” notched squeegee, then immediately back roll with a high quality 3/8” nap roller cover. During this application the pigments start to move and create different effects within the epoxy.

**NOTE:** If the coating is applied too thin (less than 80 square feet per gallon) the pigments will not create desired effects.

- Be sure to remove any impurities as you see them. It is much harder to cut or grind them out after the product has cured.
- Allow to cure 8-14 hours prior to applying the Armor-Top topcoat.

#### **TOPCOAT INSTRUCTIONS**

Apply Armor-Top CLEAR (gloss or satin) with 1 ounce of Dur-A-Grip per kit. **NOTE: The use of Armor-Top GRIT is NOT recommended as roller lines may be visible.** Spread rate is approximately 625-650 square feet per kit. (Follow the Armor-

Top Application Instructions for complete mixing and application details).

#### **IMPORTANT CONSIDERATIONS WHEN APPLYING REFLEXIONS FLOOR SYSTEMS:**

- **Experimenting with different application methods will generate different effects.**
- **Be sure to properly measure and mix all Hardeners and Resins, along with proper spread-rates, to insure proper curing of the products.**

#### **IMPORTANT:**

**USE SIGNS AND BARRIERS** to keep traffic out of the area. Do not allow any water on coated surface for 24-48 hours. **NOTE:** Use DUR-A-SOLVE or Xylene for clean up.

#### **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.**

#### **JOINT GUIDELINES**

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

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