

DUR-A-CHIP DECORATIVE EPOXY 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. Material for small areas can be mixed with a 1/2" - 3/4" heavy duty, slow speed, electric drill equipped with a DUR-A-FLEX Jiffler mixing attachment and a 5-gallon metal pail.

DUR-A-CHIP is applied by broadcast method.

When recommended spread rates are followed, a double broadcast of either MICRO or MACRO decorative chip will produce a nominal 35 mil floor system. Surface finish can be smooth or slip resistant.

SURFACE PREPARATION

Surface must be clean, sound, dry and free of all oil, grease, detergent film, sealers and/or curing compounds. A surface profile of 10 to 15 mils is appropriate for most applications. All paint should be removed unless it is a properly applied, totally de-glossed, high quality epoxy. Upper level rooms, like mechanical rooms, bathrooms, or wet process areas that have space below should receive ELAST-O-COAT or DUR-A-GLAZE #4 "Flex Resin" seamless fluid applied membrane. Please refer to the DUR-A-FLEX "Surface Preparation Guide" for detailed instructions.

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. Apply masking tape 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.

PRE-PATCH

Pre-patch badly eroded, spalled or cracked areas with the proper material: Use ELAST-O-COAT for moving joints and DUR-A-GLAZE #4 mixed with NO-SAG or Flintshot for non-moving joints. **BE SURE TO LEAVE AS LITTLE EXCESS AS POSSIBLE AS IT WILL BE HIGHLIGHTED IN SUCCESSIVE STEPS.** Sanding or grinding pre-patch areas will help in hiding deviations.

PRIMING

All surfaces must be primed with DUR-A-SHIELD, DUR-A-POXY HIGH GLOSS or DUR-A-GLAZE TIE COAT as soon as the surface has been prepared. On oily concrete slabs, HI-SPEED Detergent/Degreaser is recommended. Be sure to apply primer **before** oil has a chance to "wick" up to the top of the slab and migrate across the surface.

APPLICATION METHOD

- A. Prepare the surface as outlined in the DUR-A-FLEX "Surface Preparation Guide".
- B. Measure out 1/2 gallon of DUR-A-GARD OPF hardener and 1 gallon of DUR-A-GARD resin. When combining, be sure to add the hardener first. Add the resin and scrape out the container. Be careful to pour both hardener and resin into the center of the mixing pail. Mix the blended epoxy with a slow speed power drill with a Jiffler type mixing blade for 2 minutes. **Always scrape the sides and bottom of the mixing bucket to assure thorough blending.**
- C. Apply the mixed DUR-A-GARD at 300 Sq Ft per gallon using the dip and roll method, and back roll with a quality, non-shed roller.
- D. Broadcast MICRO or MACRO decorative chip. While wearing spiked shoes, walk on the wet epoxy holding a 2-gallon container and broadcast the decorative chip until the floor appears dry (about 6.5 Sq Ft per pound). Be sure to keep moving while throwing the chips UP into the air so it falls vertically onto the epoxy. Do not rush, as it may take 15 to 30 seconds for the chips to be absorbed by the epoxy. **IMPORTANT:** Do not "seed" the edge that will be joining the next section. Be sure to leave a "WET EDGE" (a 24" strip "unseeded" to permit overlapping when proceeding onto next section). Do not walk on the decorative chip with spiked shoes. Be sure to keep any impurities out of the chips such as broom bristles, debris, etc. Allow to cure.

- E. Sweep off the excess decorative chip using a stiff, clean, dry broom with synthetic bristles.
- F. Scrape the floor with a trowel or floor scraper. Sweep and vacuum the floor again.
- G. Measure out 1 part DUR-A-GLAZE #4 WATER CLEAR hardener and 2 parts DUR-A-GLAZE #4 resin and mix the blended epoxy for 2 minutes. Be sure to follow the procedures outlined in step (B). Mix only what you can apply within 5 - 10 minutes.
- H. Apply the mixed DUR-A-GLAZE #4 WATER CLEAR at 200 Sq Ft per gallon with a flat squeegee and back roll with a quality, 3/8" non-shed roller.
- I. Broadcast MICRO or MACRO decorative chip. Follow procedures outlined in step (D) above. Allow to cure.
- J. Sweep off the excess decorative chip using a stiff, clean, dry broom with synthetic bristles.
- K. Scrape the floor with a trowel or floor scraper. Sweep and vacuum the floor again.
- L. Apply a coat of DUR-A-GLAZE #4 WATER CLEAR at 100-150 Sq Ft per gallon with a flat squeegee and back roll with a quality, 3/8" non-shed roller. Follow the same procedure for mixing as outlined in step (F). For anti-slip properties, back roll Aluminum Oxide #36 or #54 into grout coat. Allow to cure.
- M. Measure out 1 part hardener and 2 parts resin of POLY-THANE #2 HIGH SOLIDS. **Be sure to pour the resin into the mixing bucket first, and then add the hardener. Always scrape the sides and bottom of the mixing container to assure thorough blending.** Mix for 2 minutes with a slow speed drill fitted with a Jiffler type mixer. Keep hardener and resin containers covered to prevent solvent evaporation.
- N. Using a quality 18 inch 3/8" non-shed nap roller, dip and roll the POLY-THANE 2 HIGH SOLIDS in a north/south direction at 250-300 Sq. Ft. per gallon. Immediately cross roll with an 18 inch 3/8" non-shed nap roller in an east/west direction while wearing spiked shoes. Be sure to remove any impurities as you see them.
- O. Remove all masking tape as you proceed, before it gets out of reach. Allow to cure.

IMPORTANT: Be sure to pour the hardener into the mixing bucket first, when working with the epoxy and vice versa when working with the urethane. Always scrape the sides and bottom of mixing container to assure thorough blending. USE SIGNS AND BARRIERS to keep traffic out of the area. Do not allow any water on coated surface for 24-48 hours. Chemical spillage must be prevented for approximately 5 days. **NOTE:** Use DUR-A-SOLVE or a lacquer thinner for clean up. 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.**

JOINT GUIDELINES

Refer to the [Joint Guidelines](#) for complete details on our website.

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