

DUR-A-GARD

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-FLEX Power Mixers are highly recommended for mixing cove base and patching compound. 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 bird-cage mixing attachment and a 5 gallon metal pail.

DUR-A-GARD is applied by "brush, roller and/or squeegee". When recommended spread rates are followed, a single coat of REGULAR or FAST can yield between 8 and 20 mils DFT. A single coat of OPF can yield between 4 and 6 mils DFT.

SURFACE PREPARATION

Surface must be sound, dry and perfectly clean, 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 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. 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.

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.

JOINT TREATMENT

Control joints and expansion joints can be treated several ways depending on variables such as traffic loads, temperatures, movement in substrate and ability to repair a crack should one occur in a finished floor. Joints that have already cracked and have no potential for movement can be pre-filled with a mixture of DUR-A-GLAZE #4 and aggregate. Joints that might have the potential for movement can be filled with ELAST-O-COAT and NO-SAG #1. It should be noted that if a joint moves there is the potential for a white stretch mark to transfer through the finished floor. It is up to the facility owner to decide if this is acceptable. The safe way to install the joint is to sawcut through the finished floor, install backer rod and fill joint with POLY-FILL UJF.

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 #2 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.

QUALITY CONTROL

The color of DUR-A-GARD resin may vary slightly from batch to batch. It is recommended that the lot number on the side of the resin pail be checked. If lot numbers are different, box together the different lot numbers to ensure a uniform color for topcoat applications.

1. REGULAR/FAST - BRUSH & ROLL METHOD

- A. Prepare the surface as outlined in the DUR-A-FLEX "Surface Preparation Guide."
- B. Prime surface with appropriate primer and spread rate.
- C. Pre-mix hardener and resin thoroughly before mixing together.

D. Measure out 1/2 gallon hardener and 1 gallon 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 mixing blade for 3 minutes. Always scrape the sides and bottom of the mixing bucket to assure thorough blending.

E. Pour a 4 to 6 inch “ribbon” of blended epoxy onto the floor (typically along the far wall or a joint) at the desired spread rate. DUR-A-GARD is typically applied at 100-200 Sq Ft per gallon to yield 8-16 mils DFT per coat with a flat or notched squeegee and then back rolled with a quality non-shed ¼” mohair roller.

Cross roll entire area as you go, wearing spiked sandals or golf shoes. 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.

Non-Skid grit can be broadcast at the rate of 1 lb Per 100 Sq Ft if so desired and then back roll into coating. The size of non-skid aggregate is dependent on the thickness of the DUR-A-GARD application.

Successive coats can be applied to achieve the desired thickness.

See TOPCOAT INSTRUCTIONS below.

2. DUR-A-GARD “S/L” METHOD

A. Prepare the surface as outlined in the DUR-A-FLEX “Surface Preparation Guide.”

B. Prime surface with appropriate primer and spread rate.

C. Measure out 1/2 gallon hardener and 1 gallon 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 mixing blade, mixing while adding pre-measured blended aggregates and fillers depending on thickness of floor (35-100 mil).

D. **Always scrape the sides and bottom of the mixing bucket to assure thorough blending.**

E. Apply pre-mixed, blended aggregates, fillers and colored 100% solids epoxy to primed surface with a 1/4”, 3/8” or 1/2” notched squeegee, depending on thickness desired.

F. Gently back roll with a plastic spiked roller to insure even distribution of blended aggregates and fillers.

G. Cross roll entire area and allow to cure.

H. Sand the floor with a floor buffing machine and sanding attachment. Use ½” closed grit sandpaper or screen. Sweep or vacuum the floor again.

I. See TOPCOAT INSTRUCTIONS.

TOPCOAT INSTRUCTIONS

A. Select appropriate Topcoat and follow its application instructions. (Urethane “Performance Topcoats” can be applied as soon as epoxy has cured).

B. For an orange peel finish, apply a coat of DUR-A-GARD OPF at a coverage rate of 400 – 500 Sq Ft per gallon. For an aggressive orange peel texture, apply a coat of CRETE-GARD at a coverage rate of 100 – 200 Sq Ft per gallon.

IMPORTANT: Be sure to pour the hardener into the mixing bucket first, then the “resin”. Always scrape the sides and bottom of mixing container to assure thorough blending. In order to reduce the risk of outgassing when applied to shot blasted concrete, priming is required with DUR-A-SHIELD or DUR-A-POXY HIGH GLOSS at the recommended application thickness. Increasing room temperature to accelerate cure is not recommended, a slight reduction (3°-5°F) from reasonable room temperature may help reduce outgassing. DUR-A-GARD is a high gloss finish; special care should be given to avoid surface contamination. 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.

THICKNESS OF COATING APPLIED (1000 MILS = 1 INCH)		COVERAGE PER US GALLON 100% SOLIDS SYSTEM	
	20 MILS	80.0	SQ FT/GAL
1/64 IN. =	16 MILS	102.0	SQ FT/GAL
	10 MILS	160.0	SQ FT/GAL
	8 MILS	200.0	SQ FT/GAL

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.

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.