DUR-A-FLEX
INNOVATION FROM THE FLOOR UP

APPLICATION INSTRUCTIONS

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ULTRA CLEAR

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.

ULTRA CLEAR is applied by "brush, roller and/or Squeegee". When recommended spread rates are followed, a single coat of Ultra Clear can yield between 5 and 20 mils DFT. A double broadcast into Ultra Clear will produce a nominal 1/8" thick finish. Ultra Clear is recommended for use as a high gloss, UV protective, decorative top coat in areas where low odor is necessary.

SURFACE PREPARATION

Surface must be clean, sound, dry and free of all oil, grease, detergent film, sealers and/or curing compounds. A CSP of 3-4 is appropriate for most applications. All coatings 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 on our website for detailed instructions. 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.

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 upon size of batch and temperature of floor and product. Apply Ultra Clear Hardener is yellow and will cured clear when mixed with Ultra Clear Resin. 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.

PRIMING

All surfaces must be primed with DUR-A-GLAZE WB Primer, DUR-A-GLAZE MVP Primers*, or ELAST-O-COAT as soon as the surface has been prepared.

*Dur-A-Glaze MVP Primers include any available version of Dur-A-Glaze MVP, MVP2, or MVP3 Primer.

On oily concrete slabs SIMONIZ 969 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

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

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.

1. 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. **Important:** 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. ULTRA CLEAR 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 3/8" roller if needed.

F. Cross roll entire area as you go, wearing spiked 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.

G. Successive coats can be applied to achieve the desired thickness.

TOPCOAT INSTRUCTIONS

A. Measure out ½ gallon hardener and 1 gallon resin. Follow the same pouring and mixing procedures as described in the broadcast coat. Apply the topcoat with a flat 12" squeegee. Move squeegee in a continuous semi-circular motion from left to right to left, etc. Steady pressure on the squeegee is necessary to obtain a uniform appearance. Do not advance squeegee too rapidly, each semi-circular swing should advance approximately 4 inches. Remove all puddles and ridges before they are out of reach. Start movement of squeegee in a dry area, move onto wet ULTRA CLEAR and continue to move squeegee until it reaches a dry edge.

B. 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 ULTRA CLEAR application.

C. Back roll with a quality 3/8" nap non-shed roller.

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, priming is required with Dur-A-Glaze MVP Primers, Dur-A-Glaze WB Primer, or Elast-O-Coat. Increasing room temperature to accelerate cure is not recommended, a slight reduction (3°-5°F) from reasonable room temperature may help reduce outgassing. ULTRA CLEAR is a high gloss finish and 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

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.