

## **POLY-THANE #2 HIGH SOLIDS**

**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. POLY-THANE is intended for use as an optional topcoat for DUR-A-GARD, SHOP FLOOR, DUR-A-QUARTZ and POLY-CRETE broadcast systems. DUR-A-CRETE overlayment, which has already received one topcoat of CRETE-GARD, can also be topcoated with POLY-THANE.

**POLY-THANE #2 HIGH SOLIDS is applied by the Dip and Roll method.** The recommended spread rates are 250 to 300 SF/gal to yield 4-5 mils DFT.

### **SURFACE PREPARATION**

Surface must be clean, sound, dry and free of all oil, grease, detergent film, sealers and/or curing compounds. Apply POLY-THANE topcoats within 24 hours of finishing specific epoxy floor system. Please refer to the DUR-A-FLEX Surface Preparation Guide 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. Apply masking tape wherever coating is intended to stop.

### **PRIMING**

If the existing DUR-A-FLEX epoxy or urethane floor system is being recoated, use DUR-A-GLAZE TIE-COAT to prime all surfaces after the floor has been properly prepared and tack ragged clean.

### **SELECTING POLY-THANE TOPCOAT**

1. For DUR-A-QUARTZ or DUR-A-CHIP floors can be top coated with POLY-THANE #2 HIGH SOLIDS.
2. DUR-A-GARD, SHOP FLOOR and DUR-A-CRETE can be top coated with POLY-THANE #2 HIGH SOLIDS pigmented with ADD-A-COLOR #4.

### **MIX RATIO**

<u>PRODUCT</u>	<u>FINISH</u>	<u>RESIN</u>	<u>HARDENER</u>
Poly-Thane #2 High Solids	High Gloss	2 Parts	1 Part

### **QUALITY CONTROL**

The color of POLY-THANE #2 HIGH SOLIDS with ADD-A-COLOR may vary slightly from batch to batch. It is recommended that the lot number on the side of the ADD-A-COLOR pail be checked. If lot numbers are different, box together the different lot numbers to ensure a uniform color for topcoat applications.

#### **1. POLY-THANE DIP & ROLL METHOD**

**NOTE: Mix only small amounts** (See Mixing Recommendations) until you become familiar with the product application and establish how much material can be used within 10 minutes for your specific job.

A. Measure 2 parts POLY-THANE #2 HIGH SOLIDS resin and 1 part POLY-THANE #2 HIGH SOLIDS hardener.

B. Combine resin and hardener in mix bucket. Mix thoroughly with a Jiffler type mixer in a slow speed (450 rpm) electric drill for 2 minutes. **Be sure to pour the "resin" into the mixing bucket first, then the "hardener."** Always scrape the sides and bottom of mixing container to assure thorough blending. **Keep hardener and resin containers covered to prevent solvent evaporation.**

C. ACCURATE MEASURING AND THOROUGH BLENDING IS MANDATORY. Use blended material immediately. Pot life and working time is shorter at higher temperatures.

D. Pigmenting POLY-THANE #2 HIGH SOLIDS with ADD-A-COLOR:

Add 8 ounces of ADD-A-COLOR per mixed gallon. Blend resin and hardener, add ADD-A-COLOR #4 and mix for approximately one minute.

- E. Dip and roll POLY-THANE #2 HIGH SOLIDS using a 3/8" nap non-shed roller cover. Each person rolling needs to keep a straight wet edge, working in a north to south direction. POLY-THANE #2 HS coverage rate is approximately 250-300 square feet per gallon. Coverage rates are dependant upon surface profile.
- F. Cross-roll the entire area within 10 minutes. While wearing spike shoes, cross-roll perpendicular to the wet edge in an east west direction. When cross-rolling with an 18" roller, over lap the previous pass by 9". Be sure to remove any impurities as you see them. Pay close attention to and stay on top of the "wet edge".
- G. Remove all masking tape as you proceed, before it gets out of reach.
- H. Allow coated floor to cure 24 hours before allowing clean foot traffic on floor. Normal use and forklift traffic can resume after 72 hours. POLY-THANE #2 HIGH SOLIDS has to cure *at least* 24 hours

before foot traffic. All re-coats are to be completed within 36 hours unless sanded and thoroughly tack ragged.

**NOTE: This product is best suited for application in temperatures between 55°F and 90°F. Full chemical and abrasion resistance occurs in 7 days at 77° F. At lower temperatures these properties will be attained more slowly. Protect floor from chemical exposure and abrasive wear during this time.**

**IMPORTANT: 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.

**CAUTION: Extinguish all open flames, pilot lights etc. Use only explosion proof tools, lighting, ventilation equipment, etc.**

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 on our website for complete details on our website.

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