

## **POLY-CRETE TF PLUS**

**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. Consult with product MSDS for safety and handling prior to beginning.

**POLY-CRETE TF PLUS** is a solvent-free, high-build coating based upon polyurethane technology. It is typically used as a primer or topcoat for POLY-CRETE systems. As a primer, it can be used under POLY-CRETE MD, POLY-CRETE SLB w/F60 broadcast, HYBRI-FLEX ES or porous substrates where any POLY-CRETE system is being installed. It may also be used as a primer for POLY-CRETE COLOR-FAST topcoat to enhance hiding power. As a topcoat, it can be used with POLY-CRETE WR coving, POLY-CRETE HF, POLY-CRETE MDB and POLY-CRETE SLB systems.

### **STORAGE CONDITIONS:**

POLY-CRETE TF PLUS hardener and aggregate powder must be stored dry at ambient temperature. When exposed to water or high moisture, the aggregate powder will clump and reduce its active content. Exposure of the hardener to water or high moisture will generate carbon dioxide leading to a build up in pressure and loss of its active content and gelling. Do not reseal containers contaminated with moisture. The shelf life is 6 months from ship date in the original unopened container.

### **SURFACE PREPARATION**

Surface must be profiled, clean, sound, dry and free of all oil, grease, detergent film, sealers and/or curing compound. Please refer to the DUR-A-FLEX Surface Preparation Guide on our website for detailed instructions.

### **APPLICATION METHOD**

POLY-CRETE TF PLUS is applied with 1/8" notch or 12" window flat squeegee followed by a back roll using a 3/8" nap roller in accordance with the spread rate. POLY-CRETE TF PLUS system comes in pre-measured kits consisting of pigmented resin, hardener, and aggregate. When applying POLY-CRETE TF PLUS moisture levels should be no greater than 85% RH (Relative Humidity).

### **MIXING AREA**

Select a convenient mix area and protect the surface from spillage by covering with a layer of cardboard over a sheet of plastic. Be generous with the amount of space

allocated for this function. DO NOT MIX UNTIL READY FOR IMMEDIATE USE.

#### A. Equipment needed:

1. 2 Gallon Mix Container
2. 12" Paint Stick
3. 5" Jiffler Blade
4. High Speed Drill
5. 3/8" Nap Roller (9" and 18")
6. 12" Window Flat Squeegee
7. 1/8" Notch Squeegee
8. 3" Brush
9. Duct Tape and Blue Tape
10. Spiked Shoes
11. Timer
12. Personal Protection Equipment:
  - i. Long Sleeved Shirt
  - ii. Long Pants
  - iii. Work Boots
  - iv. Safety Hat (if needed)
  - v. Latex Gloves or similar
  - vi. Dust Mask (3M N95)
  - vii. Safety Goggles

- B. Pour resin into the 2 gallon mix container.
- C. Scrape the sides of the resin container with a paint stick making sure no amount of residue remains.
- D. Wipe excessive material from paint stick on rim of resin bucket – DO NOT wipe excessive material from stick on the rim of the mixing bucket.
- E. Add hardener, same as steps C and D, scrape the sides of the hardener container with paint stick and wipe excessive material from the stick on rim of hardener bucket.
- F. Use a High Speed Drill with a 5-inch Jiffler blade.
- G. Thoroughly mix resin and hardener for 30 seconds.
- H. To avoid any possible clumping, add POLY-CRETE TF PLUS Aggregate while mixing the resin and hardener.
- I. Thoroughly mix resin, hardener and aggregate for 60 seconds.
- J. Make sure there are no clumps in the mixed materials.

- K. Pour the entire mixed material onto the floor in 4-inch ribbons.
- L. Scrape out all mixed material with paint stick and do not leave any residue in mix bucket.
- M. Wet out rollers in puddle area prior to using.
1. **As a primer under POLY-CRETE MD, SLB w/F60 broadcast, COLOR-FAST, HYBRI-FLEX ES or porous substrates**
    - i. Spread with a 1/8-inch notched squeegee east to west and apply the material uniformly at 90 SF @ 8 mils thickness. When moving east to west move squeegee in a continuous semi-circular motion.
    - ii. Back roll north to south to level the material.
    - iii. Cross roll east to west to eliminate any roller lines overlapping 4-inches in between each cross roll.
  2. **Over POLY-CRETE SLB and POLY-CRETE MDB broadcast systems:**
    - i. Spread with a 12-inch flat squeegee east to west and apply material uniformly at 45 SF @ 16 mils. When moving east to west move squeegee in a continuous semi-circular motion.
    - ii. Back roll north to south to level the material.
    - iii. Cross roll east to west to eliminate roller lines overlapping 4-inches in between each cross roll.
    - iv. 2<sup>nd</sup> batch – follow steps i. thru iii.
      - a) Pour the 4-inch ribbons 2-inches into the wet-edge.
      - b) Squeegee east to west as before.
      - c) Overlap 4-inches into prior batch when back rolling.
  3. **Over POLY-CRETE HF and POLY-CRETE MD smooth and semi-smooth surfaces:**
    - i. Spread with a 1/8-inch notch squeegee east to west and apply the material uniformly 90 SF @ 8 mils thickness. When moving east to west move squeegee in a continuous semi-circular motion.
    - ii. Back roll north to south to level the material.
    - iii. Cross roll east to west to eliminate any roller lines overlapping 4-inches in between each cross roll.
- N. Non-Skid: Non-Skid grit can be broadcast at the rate of 1lb. per 100 Sq Ft if so desired and then back rolled into coating.

#### **SPREAD RATE**

Each kit yields 0.80 gallon. The spread rates over the following textures are:

- 90 Sq Ft per kit smooth at 8 mils
- 45 Sq Ft per kit smooth at 16 mils
- 45 Sq Ft per kit over Flintshot
- 28 Sq Ft per kit over Q-Rok

#### **TOOL CLEANING GUIDELINES**

1. Use a slow evaporating solvent like Xylene or Toluene.
2. Immediately clean equipment after use.

#### **LIMITATIONS**

Exposure to heat will speed the cure of POLY-CRETE TF PLUS. Contact the Dur-A-Flex, Inc. Technical Department for any additional information.

- 1) Do not apply materials in temperatures greater than 85°F or below 60°F.
- 2) Do not apply when Relative Humidity is greater than 85%.
- 3) Do not apply materials below 8 mils thickness or greater than 40 mils thickness.
- 4) Once cross-roll is completed, do not go back to re-roll.
- 5) Do not use a flat squeegee over smooth surface.
- 6) Do not use dip and roll method to apply.
- 7) Do not use POLY-CRETE TF PLUS aggregate if the bag is broken or wet.
- 8) Cove and Base finishes result in different color tones.
- 9) Do not apply within 5° of the Dew Point. Refer to Dew Point Calculation Chart in the “Master Price Guide”.
- 10) When using HF ACCELERATOR do not exceed ¼ oz. per mix (@70F).

#### **JOINT GUIDELINES**

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

#### **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.

#### **KEEP OUT OF REACH OF CHILDREN.**

**Do not reseal moisture contaminated hardener. This will result in carbon dioxide generation on possible violent rupture of containers.**

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