

## **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 three component, 100% solid, cementitious aromatic urethane blended with high grade aggregate powder and a hardener. POLY-CRETE TF PLUS serves as a topcoat for POLY-CRETE HF, POLY-CRETE MD, POLY-CRETE WR and as grout coat for the POLY-CRETE MDB and SLB systems. It resists stains caused by food processing chemicals, and is faster curing than traditional cementitious urethane 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. Over POLY-CRETE SLB and POLY-CRETE MDB broadcast systems:
    - i. Pull your 12-inch squeegee east to west and spread materials uniformly. When moving east to west move squeegee in a continuous semi-circular motion.
    - ii. Back roll north to south to level the material. Be sure to press down slightly on the roller to assure material is nested between the quartz.
    - 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.
  - 2. Over POLY-CRETE HF and POLY-CRETE MD smooth and semi-smooth surfaces:
    - i. Pull your 1/8-inch notch squeegee east to west and spread the materials uniformly. When moving east to west move squeegee in a continuous semi-circular motion.
    - ii. Back roll north to south to level the material. Be sure to press down to disperse the aggregate evenly.
    - iii. Cross roll east to west to eliminate any roller lines overlapping 4-inches in between each cross roll.
    - iv. 2 batch – Follow steps as outlined in section **M 1-iv**.
- N. Non-Skid: Non-Skid grit can be broadcast at the rate of 1lb. per 100 Sq Ft if so desired and then back roll 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**

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

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).

#### **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.**

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

#### **JOINT GUIDELINES**

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