

## **POLY-CRETE COLOR-FAST**

**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 SDS for safety and handling prior to beginning.

**POLY-CRETE COLOR-FAST** is a three component 100% solid, cementitious aliphatic urethane blend. POLY-CRETE COLOR-FAST is 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 manufacturing chemicals, maintains lasting color and appearance, and cures faster than traditional cementitious urethane systems.

### **STORAGE CONDITIONS**

POLY-CRETE COLOR-FAST 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 COLOR-FAST is applied with 1/8" notch or 12" flat window squeegee followed by a back roll using an 18" long 3/8" nap roller in accordance with the spread rate. POLY-CRETE COLOR-FAST system comes in pre-measured kits consisting of pigmented resin, hardener, and aggregate. When applying POLY-CRETE COLOR-FAST moisture levels should be no greater than 85% RH (Relative Humidity).

**NOTE: Use of POLY-CRETE COLOR-FAST colors Blue and Green require a grout coat of POLY-CRETE TF at 45 SF/kit prior to application to ensure consistent color.**

**NOTE:** To protect the floor from scratches when moving equipment on a POLY-CRETE COLOR-FAST floor, the use of temporary floor protection such as Ram board (or

equivalent) is recommended. If using masonite or plywood, apply a layer of plastic sheeting such as Visqueen (or equivalent) underneath the wood. Plywood and Masonite can yellow a Polycrete Colorfast floor if laid on the floor in less than 7 days (full POLY-CRETE COLOR-FAST cure).

**NOTE:** For each application of material and before mixing, mark your batches to ensure you achieve your spread rate targets. This is best accomplished by dividing your target spread rate by the width of the area being coated (or your planned wet edge). Example: If your spread rate is 100 square feet and your area is 20 feet wide you would make a mark every 5 feet (100 divided by 20 = 5).

### **MIX INSTRUCTIONS – IMPORTANT NOTE:**

#### **ORDER OF ADDITION – Resin, Aggregate, Hardener.**

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. 4" Dispersion Blade
4. High Speed Drill
5. 3/8" Nap Roller (9" and 18")
6. 12" Flat Window 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 excess material from paint stick on rim of resin bucket – **DO NOT** wipe excessive material from stick on the rim of the mixing bucket.

E. To avoid any possible clumping, **add POLY-CRETE COLOR-FAST Aggregate** slowly while mixing the resin.

F. Using a High Speed Drill with a 4-inch Dispersion blade, thoroughly **mix resin and aggregate for 45 seconds.**

- G. **Add hardener:** Scrape the sides of the hardener container with paint stick and wipe excessive material from the stick on rim of hardener bucket. Thoroughly **mix resin, aggregate, and hardener for 45 seconds.**
- H. Make sure there are no clumps in the mixed materials.
- I. Pour the entire mixed material onto the floor in 4-inch ribbon.  
**NOTE: Do NOT allow poured material to sit for more than one minute to avoid settling of the aggregate.**
- J. Wet out roller in puddle area prior to using.

**1. Topcoat application for POLY-CRETE SLB and POLY-CRETE MDB broadcast systems:**

- i. Using a 12-inch flat window squeegee spread materials uniformly east to west, moving the squeegee in a continuous semi-circular motion. Be sure to press down slightly on the squeegee to assure material is nested between the quartz.
- 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.

**2. Topcoat application for POLY-CRETE HF and POLY-CRETE MD smooth and semi-smooth surfaces:**

- i. Use a 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<sup>nd</sup> batch – Follow steps as outlined in section 2. i-iii.

- K. Non-Skid: Non-Skid grit can be broadcast at the rate of 1 lb. per 100 Sq Ft if so desired and then cross rolled into coating.
- L. Allow material to dry: (refer to Cure Time chart)

**SPREAD RATE**

Each kit yields 1.1 gallons. The spread rates over the following textures are:

- 50 Sq Ft per kit over Q-Rok
- 100 Sq Ft per kit over Flintshot at 16 mils
- 120 Sq Ft per kit smooth at 12 mils

Above rates are for small-size kit. Large size kits are 2X (double) the above.

**CURE PROPERTIES**

POLY-CRETE COLOR-FAST cure time to full service

- Pot Life @ 70°F = 10 min
- Working Time @ 70°F = 15 minutes
- Dry Time @ 70°F = 12 hrs
- Dry Time @ 60°F = 24 hrs
- Dry Time @ 50°F = 44 hrs

**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 COLOR-FAST. Contact the Dur-A-Flex, Inc. Technical Department for any additional information.

- 1) Use of POLY-CRETE COLOR-FAST colors Blue, Green, and Burnt Orange will require a coat of POLY-CRETE TF prior to application to ensure consistent color.
- 2) Do not apply materials in temperatures greater than 85°F or below 60°F.
- 3) Do not apply when Relative Humidity is greater than 85%.
- 4) Do not expose to water or other cleaners for 24 hours after application at 70°F.
- 5) Do not apply materials below 10 mils thickness or greater than 20 mils thickness.
- 6) Once cross-roll is completed, do not go back to re-roll.
- 7) Do not use a flat squeegee over smooth surface.
- 8) Do not use dip and roll method to apply.
- 9) Do not use POLY-CRETE COLOR-FAST aggregate if the bag is broken or wet.
- 10) Top coating POLY-CRETE MD or other smooth surfaces will result in an orange peel finish.
- 11) Cove and Base finishes result in different color tones.
- 12) Do not apply within 5° of the Dew Point. Refer to Dew Point Calculation Chart in the “Master Price Guide”.

**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 on possible violent rupture of containers.**

**JOINT GUIDELINES**

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