

## ACCELERA HC

**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.

### SYSTEM OVERVIEW

ACCELERA HC is a 100%-solids, low-odor, decorative chip hybrid floor system consisting of a self-leveling cementitious urethane base coat with decorative chip broadcast, a clear body coat with a decorative chip broadcast, and a clear topcoat utilizing ACCELERA resin and hardener. Total nominal system thickness is 3/16 inch.

### SURFACE PREPARATION

Surface should be profiled, clean, dry, oil free and sound. Shot Blasting is the preferred preparation method. Please refer to the master Surface Preparation Guide for more information. Never feather edge ACCELERA HC, always terminate in a keyway groove at doorways, drains and exposed edges.

### MOISTURE CONCERNS

Please refer to the Floor Evaluation Guidelines in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

### MIXING AREA

Select a convenient mix area and protect the surface from spillage by covering with a sheet of plastic and a layer of cardboard. Be generous with the amount of space allocated for this function. The more comfortably your mixer works, the less likely you are to have a "mix error". Please refer to our Mix Station video on our website for more information.

### STORAGE CONDITIONS

**POLY-CRETE SL must be stored dry. Exposure of the aggregate to moisture for an extended period will cause lumps. Do not allow resins to freeze. The shelf life is 6 months from the ship date in the original unopened container.**

**ACCELERA resin and hardener must be stored dry. Do not allow resins to freeze. The shelf life is hardener: 6 months; resin: 12 months - from the date of manufacture in the original unopened container.**

**Products must be stored in temperatures no less than 60°F and no greater than 85°F.**

### JOINT GUIDELINES

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

### APPLICATION METHOD

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).

Proper planning is essential for satisfactory appearance of the finished floor. Lay out installation in sections to allow full width to be finished in 5 minutes or less (@70°F / 50% RH).

### MANPOWER REQUIREMENTS

**Because of the fast curing of ACCELERA products assign one person to each job – do not multi-task:**

- 1 person mixing (see notes below)
- 1 person running pails
- 1 person squeegee
- 1 person loop cross-rolling
- 1 person broadcasting for every 15 linear feet of wet edge

### NOTES:

- Additional manpower will be required for complex installations requiring cut-in work.
- Above manpower applies to maximum 40 foot wet edge
- Poly-Crete SL requires 2 persons mixing

**BASE COAT** ACCELERA HC uses POLY-CRETE SL for a base coat. POLY-CRETE SL is supplied in

pre-measured units consisting of one pail of resin, one container of hardener and one bag of aggregate (powder). Pour the POLY-CRETE SL resin into a metal 5-gallon pail; scrape bottom and sides with a mix stick to assure that all material is transferred to the mix bucket. Use the Poly-Crete pail to scrape the mix stick, and never scrape the mix stick on the side of the mix pail. Pour the entire POLY-CRETE SL hardener into the center of the mix bucket. (If using POLY-CRETE NATURAL SL with pigment add the pigment to the resin and hardener.) Next, using a ½” 850 RPM drill with a 4” dispersion blade, mix the resin and hardener for 30 seconds. Slowly add the POLY-CRETE SL aggregate to the resin and hardener and mix at 850 RPM for 1 minute. **PRODUCT MUST BE MIXED WITH A 4” DISPERSION BLADE AND A ½” VARIABLE SPEED 850 RPM DRILL. \*DO NOT ADD HARDENER TO RESIN UNTIL BATCH IS READY FOR MIXING\*. \*FAILURE TO ADD ALL POLY-CRETE SL AGGREGATE WILL RESULT IN IMPROPER CURE OF MATERIAL\***

Pour the entire batch onto the floor and spread with a ½” V notched squeegee. Each kit of POLY-CRETE SL will yield 55 Sq. Ft. per kit. Check squeegee every 1000 sq feet for wear. Have new squeegee ready to avoid interruption in the process.

Use a flat trowel to cut in edges, drains and around equipment. For continuity of finish and to ensure that new batches of material are blended together without transition lines, use even pressure and trowel at a low angle using a sweeping motion.

To remove squeegee lines and help the material level, immediately Loop Roll the material after it has been placed. The material should be rolled straight forward and back picking up the roller with each pass; this will avoid leaving divots in floor. After the squeegee lines have been removed the floor should be cross rolled side to side along the entire wet edge. The final cross roll should be completed within 12 minutes of mixing the product at 70°F. Wait 15 minutes (@70F) for air release prior to broadcasting.

Wear spiked shoes and broadcast chips up into the air and let it fall onto the floor. Make sure the broadcast is dispersed evenly over the entire floor area at a rate of 0.1lbs per square foot using macro chip and 0.15 lbs per square foot using micro chip. Broadcasting needs to be completed within 30 minutes of mixing. Do not roll or walk back into areas that have been broadcast. Allow POLY-CRETE SL to cure for a minimum of 6 hours at 70°F.

Use a stiff bristle broom to sweep off excess chips. Use a vacuum to remove chips around the edges and corners that are not accessible with a broom.

Scrape the floor with a trowel or floor scraper. Sweep and vacuum the floor again.

## **SECOND BROADCAST**

NOTE: Normal recoat window for ACCELERA is 16 hours (@ 70°F/50% RH). If recoating between 16 and 24 hours ACCELERA can be sanded and recoated. Beyond 24 hours use ACCLERA EXT with ACCELERA BP additive. (Refer to the ACCELERA BP Product Data Sheet for more details.)

**NOTE: Recoat window starts from the time the products are mixed.**

NOTE: Application of ACCELERA where jobsite relative humidity is less than 30% is NOT recommended. Use ACCELERA LH resin for applications where jobsite relative humidity is between 10% and 30%. Spread rates are the same for both ACCELERA and ACCELERA LH.

NOTE: Cooler temperatures will increase cure time – plan accordingly.  
**MIX AND APPLY ONE BATCH AT A TIME - DO NOT MIX HARDENER AND RESIN TOGETHER UNTIL BATCH IS READY FOR IMMEDIATE APPLICATION.**

Pour the ACCELERA hardener into the ACCELERA resin container; scraping the bottom and sides with a mix stick to assure that all material is transferred to the resin bucket. Use the hardener pail to scrape the mix stick and never scrape mix stick on the side of the mix pail. Using a ½” 750 RPM drill with a 3 inch jiffiler blade, mix the resin and hardener for 30 seconds.

Pour the entire batch onto the floor in a 4 to 6” ribbon. Using a flat squeegee spread the material evenly at approximately 65 square feet per kit. Cross roll the material pushing a 3/8 inch nap roller in the same direction immediately after the squeegee to ensure there are no puddles. All rolling should be completed within 5 minutes.

Wear spiked shoes while broadcasting chips up into the air and letting them fall onto the floor. Make sure the broadcast is dispersed evenly over the entire floor area at a rate of 0.1lbs per square foot for macro chips and .15 lbs per square foot for micro chip. Broadcasting needs to be completed within 10 minutes of mixing. Do not roll or walk back into areas that have been broadcast. Allow to cure for 2 hours (@ 70°F / 50% RH).

Use a vacuum to remove excess loose chips. Scrape the floor with a trowel or floor scraper. Vacuum the floor again.

**TOPCOAT** Pour the ACCELERA hardener into the ACCELERA resin container; scraping the bottom and sides with a mix stick to assure that all material is transferred to the resin bucket. Use the hardener pail to

scrape the mix stick and never scrape mix stick on the side of the mix pail. Using a ½” 750 RPM drill with a 3 inch jiffiler blade, mix the resin and hardener for 30 seconds.

Pour the entire batch onto the floor in a 4 to 6” ribbon. Using a flat squeegee spread the material evenly at approximately 65 square feet per kit. Cross roll the material pushing a 3/8 inch nap roller in the same direction immediately after the squeegee to ensure there are no puddles. All rolling should be completed within 5 minutes. Allow to cure for 2 hours (@ 70°F / 50% RH).

### **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.**

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