ACCELERA® HQ

The following information is to be used as a guideline for the installation of the Accelera HQ flooring system. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 3-4

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT	PACKAGING
0 g/L	Primer (Optional)	Poly-Crete TF	A, B & C unit	90 sq. ft./unit	0.80 gals./unit
0 g/L	Basecoat	Poly-Crete SL 5900F	A, B & C unit To Excess	40-42 sq. ft./unit 800 lbs./1000 sq. ft.	3.125 gals./unit 50 lbs.
< 50 g/L	Second Broadcast	Accelera standard, LH or EXT 5900F	Small & Large Units To Excess	65 sq. ft./Lg Unit 500 lbs./1000 sq. ft.	Sm ~.25 gals., Lg ~.75 gals. 50 lbs.
< 50 g/L	Grout	Accelera standard, LH or EXT	Small & Large Units	22 sq. ft./Sm - 65 sq. ft./Lg	Sm. ~.25 gals., Lg. ~.75 gals.
< 50 g/L	Topcoat (optional)	Accelera standard, LH or EXT	Small & Large Units	67 sq. ft./Sm - 200 sq. ft./Lg	Sm ~.25 gals., Lg ~.75 gals.

For additional topcoat options, contact your Sherwin-Williams Representative.

IMPORTANT!

Read these instructions carefully several days prior to starting your work. Seek answers to any questions you may have before you begin. Sherwin-Williams HPF maintains a technical staff that will be glad to answer your questions and give you advice pertaining to your particular installation.

SYSTEM OVERVIEW

Accelera HQ is a low-odor, decorative chip system consisting of a self-leveling cementitious urethane base coat with decorative quartz broadcast, and a clear body coat with a second decorative quartz broadcast, and a clear topcoat utilizing Accelera resin and hardener. Total nominal system thickness is 1/4 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 HQ, 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 aggregate 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 for Accelera (Standard, LH, and EXT) products is - Gloss Finish Resins: 12 months, Satin Finish Resins: 6 months, and Hardeners: 6 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 on our website for complete details.

LIMITATIONS

Only use 5900F sized broadcast with this system – use of 5900C will result in trapped air bubbles.

APPLICATION METHOD

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 (5-10 minutes if using Accelera EXT) (@70°F/50% RH) or less.

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).

MANPOWER REQUIREMENTS

Because of the fast curing of Accelera products, assign one person to each job – do not multi-task (Use of Accelera EXT will extend working times, however a full crew should still be utilized for best results in application):

1 person mixing
1 person running pails
1 person squeegee
1 person 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 HQ 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. 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 1/2" 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 1/2" 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 1/2" V-notched squeegee. Each kit of Poly-Crete SL will yield 40-42 square feet per kit. Check squeegee every 1,000 square feet for wear. Have a 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 the 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 (@70°F) for air release prior to broadcasting.

Wear spiked shoes and broadcast aggregate 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 0.8 lbs. per square foot. 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 @ 70°F.

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

SECOND BROADCAST

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%. For extended working times, use Accelera EXT. Spread rates are the same for Accelera, Accelera LH and Accelera EXT.

NOTE: Cooler temperatures will increase cure time – plan accordingly.

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

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 the mix stick on the side of the mix pail. Using a 1/2" 750 RPM drill with a 3 inch Jiffler 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 (5-10 minutes if using Accelera EXT).

Wear spiked shoes while broadcasting quartz into the air and letting it fall onto the floor. Make sure the broadcast is dispersed evenly over the entire floor area at a rate of 0.5 lbs. per square foot. 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).

GROUT COAT/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 the mix stick on the side of the mix pail. Using a 1/2" 750 RPM drill with a 3 inch Jiffler 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 – If using Accelera EXT, complete all rolling in 5-10 minutes and allow to cure for 2-3 hours (@ 70°F/50% RH).

OPTIONAL 2ND TOPCOAT

If an Orange Peel texture is desired, apply a second topcoat using a flat squeegee and cross roll with a 3/8 inch nap roller at the rate of 200 square feet per kit.

IMPORTANT!

Before using Sherwin-Williams High Performance Flooring products, read and understand their accompanying Safety Data Sheet.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT **industrial.sherwin-williams.com/na/us/en/resin-flooring** FOR THE LATEST VERSION.

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.

THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams High Performance Flooring delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe.

United States & Canada
sherwin-williams.com/resin-flooring
swflooring@sherwin.com

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