

HYBRI-FLEX® ES

The following information is to be used as a guideline for the installation of the Hybri-Flex ES 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	Poly-Crete TF	A, B & C unit	90 sq ft/unit	0.80 gal/unit
0 g/L 0	Basecoat	Poly-Crete SL F-60 Quartz	A, B & C unit To Excess	40-42 sq ft/unit 500 lbs/1000 sq ft	3.125 gal/unit 50 lbs
0 g/L 0	S/L Topcoat	Resulfor Glaze F-60 Quartz 290 mesh Silica Flour	1 gal: .5 gal .75 gal .75 gal	70 sq ft/batch	3, 15 or 150 gals 50 lbs 50 lbs
<100 g/L	Topcoat	Resutile AT, pigmented	1 gal Hardener .25 gal Colorant .25 gal Resin + .125 gal Resutile AT Grit*	550-850 sq ft/kit	1.25 gal/unit .25 gal Colorant 2 lbs

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

Hybri-Flex ES is a 100% solids low odor, smooth, solid color system composed of an 8 mil Poly-Crete TF primer, 1/8" Poly-Crete SL body coat with F-60 quartz broadcast, 60 mil Resulfor Glaze S/L topcoat, and a 3 mil Resutile AT topcoat yielding a total nominal system thickness of 190 mils.

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 on our website for more information. Never feather edge Hybri-Flex ES, always terminate in a keyway groove at doorways, drains and exposed edges. No epoxy coatings should be applied unless surface temperature is a minimum of 5°F above dew point. See Dew Point Calculation Chart on our website for detailed instructions.

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 the Mix Station video on our website.

STORAGE CONDITIONS

Hybri-Flex ES components must be stored dry. Do not allow resins to freeze. Do not store near open flame or food. Every Poly-Crete product will be shipped with a lot number on the label. The first two digits indicate the year; the second two show the month, the third two will indicate the day. The shelf life is 6 months from the date on the label in the original unopened container.

JOINT GUIDELINES

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

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 30 minutes (@70°F) or less to assure absence of placement lines.

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).

PRIMER

- A. Poly-Crete TF Plus is supplied in pre-measured units consisting of one pail of resin, one pail of hardener and one bag of aggregate (powder). Pour the Poly-Crete TF Plus resin into a 2-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; never scrape mix stick on the side of the mix pail. Measure 1 oz of Poly-Crete HF Accelerator and add it to the mix bucket. Pour the entire Poly-Crete TF Plus hardener into the center of the mix bucket. Using a ½" 750 RPM drill with a 4" dispersion blade, mix the resin and hardener for 30 seconds. Slowly add the Poly-Crete TF Plus aggregate to the resin and hardener and mix at 750 RPM for 1 minute. **PRODUCT MUST BE MIXED WITH A 4" DISPERSION BLADE AND A ½" VARIABLE SPEED 750 RPM DRILL. *DO NOT ADD HARDENER TO RESIN UNTIL BATCH IS READY FOR MIXING*. *FAILURE TO ADD ALL POLY-CRETE TF PLUS POWDER WILL RESULT IN IMPROPER CURE OF MATERIAL***
- B. Pour the entire batch in two 4"-6" ribbons along the starting point.
- C. Using a 3" chip brush, cut in along edges, drains and doorways.
- D. Roll the material with an 18" 3/8" nap roller at 90 SF/kit depending on substrate texture and porosity.
- E. Cross roll the material to remove any puddles and achieve a uniform thickness. Allow to cure for 4 hours @ 70°F before proceeding to the next application.

BASECOAT

- A. 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; never scrape mix stick on the side of the mix pail. Pour all of the 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***
- B. Pour the entire batch onto the floor and spread with a ½ V notched squeegee. Each kit of Poly-Crete SL will yield 40-42 SF/kit. Check squeegee every 1,000 square feet for wear. Have a new squeegee ready to avoid interruption in the process.
- C. Use a flat trowel to cut in edges, drains and around equipment. With an even pressure at a low angle, trowel in a sweeping motion to complete troweling. This ensures that new batches of material are blended together with no transition lines for continuity of finish.
- D. 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 while 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.
- E. Wear spiked shoes while broadcasting F-60 quartz 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 0.5 lbs per square foot. Make sure to wait a full 15-20 minutes before broadcasting. 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.
- F. Use a stiff bristle broom to sweep off excess aggregate. Use a vacuum around the edges and corners that are not accessible with a broom.

RESULTFOR GLAZE S/L TOPCOAT

- A. Measure out 0.5 gallons of Resultfor Glaze Regular hardener and 1 gallon of Resultfor Glaze Resin. The first step is to add the hardener to a separate mixing pail, then add the resin second. Scrape bottom and sides with a mix stick to assure that all material is transferred to the mix bucket. Use the measuring pail to scrape the mix stick; never scrape mix stick on the side of the mix pail. **BE SURE TO PRE-MIX RESULTFOR GLAZE RESIN AND HARDENER.**
- B. Using a slow-speed drill with a Jiffiler blade, mix the resin and hardener for 2-3 minutes. ***DO NOT ADD RESIN TO HARDENER UNTIL BATCH IS READY FOR MIXING***
- C. While continuing to mix, measure 3 quarts of F-60 quartz aggregate and 3 quarts of 290 Silica Flour and pour into the resin-hardener mix. Mix for another minute until uniform mixture is achieved.
- D. Pour a 4" to 6" ribbon along the starting area. Use a 3" chip brush to cut in along edges, doorways and drains.
- E. Using a 3/8" notch squeegee, pull the material from side to side while overlapping passes every 6". Be careful not to leave any puddles. Resultfor Glaze S/L is applied at 70 SF/batch.
- F. While wearing spiked shoes, back roll the material against the squeegee lines with a loop roller.
- G. Cross roll the material from side to side while overlapping the previous pass with half the roller width. Allow to cure for 12 hours @ 70°F.
- H. Use a vacuum to remove any dust from sanding the floor.

RESUTILE AT TOPCOAT SPREAD RATES

Gloss Clear (w/grit) = 575 SF/kit	Satin Clear (w/grit) = 775 SF/kit
Gloss Clear (no grit) = 550 SF/kit	Satin Clear (no grit) = 750 SF/kit
Gloss Pigmented (w/grit) = 700 SF/kit	Satin Pigmented (w/grit) = 850 SF/kit
Gloss Pigmented (no grit) = 675 SF/kit	Satin Pigmented (no grit) = 825 SF/kit

NOTE: Resutile AT is sold in kits only. Spread rates vary due to differences in gloss and satin kit sizes.

- A. Pour 1 gallon of Resutile AT hardener into a 2 gallon bucket. Add 1 quart of Resutile AT Colorant and mix for 30 seconds. Add 1 quart of Resutile AT resin and mix for 30 seconds. If additional abrasion resistance is required, slowly add 1 pint of Resutile AT Grit and continue mixing for an additional minute. Pour a small amount into a dip and roll tray that is large enough to accommodate an 18" roller.
- B. Dip roller cover into paint tray and roll off excess. Apply two 8-10 foot long paths from left to right then right to left. Re-wet roller and continue application. Even out roller lines by using W-shaped crosses and/or up and down passes. If not even, re-roll up and down until uniform. A final cross roll is necessary to even out roller lines. Make sure to complete this roll within 10 minutes of the coating being placed.
- C. To prevent settling of the grit/powder, occasionally remix Resutile AT in a tray or bucket with a stick. Dry time is dependent on humidity as well as temperature.
- D. If recoating over 24 hours, sand floor using at least a 60 grit screen, solvent wipe and apply Resulfor Glaze epoxy with Super Stick additive at recommended rate. Re-apply Resutile AT the next day.

NOTE: This product is best suited for application in temperatures between 60°F and 85°F. Full chemical and abrasion resistance occurs in 7 days at 77°F. At lower temperatures these properties will be attained more slowly. Protect the floor from chemical exposure and abrasive wear during this time

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.

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