

## POLY-CRETE® WR

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

### APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 2-5

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT	PACKAGING
0 g/L	Primer	Poly-Crete TF	A, B & C unit	200 sq. ft./unit	0.80 gal./unit
0 g/L	Base Coat	Poly-Crete WR	A, B & C unit	35 lin. ft./unit @ 4" H w/ 1" radius 25 lin. ft./unit @ 6" H w/ 1" radius	3.3 gal./unit
<b>OPTIONAL INSTALLATION WITH COVE CAP STRIP</b>					
0 g/L	Primer	Poly-Crete TF	A, B & C unit	200 sq. ft./unit	0.80 gal./unit
0 g/L	Base Coat	Poly-Crete WR	A, B & C unit	35 lin. ft./unit @ 4" H w/ 1" radius 25 lin. ft./unit @ 6" H w/ 1" radius	3.3 gal./unit

For 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. Large areas will require two or more mixers.

Poly-Crete WR is a 100% solids aromatic cementitious urethane system, blended with graded silica and fine fillers to produce a self-leveling matte finish of uniform color.

### MOISTURE CONCERN

Normal limits for moisture vapor transmission for Poly-Crete floor systems are 20 lbs./1,000 sq. ft./24 hours using the calcium chloride test per ASTM F-1869 or 99% relative humidity using in-situ Relative Humidity Testing per ASTM F-2170. Please refer to the Floor Evaluation Guidelines for complete details.

### SURFACE PREPARATION

Concrete surface should be profiled, clean, dry, oil free and sound. Shot Blasting is the preferred preparation method for concrete. It is recommended that the edges of the floor area adjoining the perimeter walls, drains adjacent to any doorways, machinery pedestals, and either side of cold joints, be keyed to produce a cross section 1/4" deep by 1/4" wide running at 6" from and parallel to the wall. Never feather edge Poly-Crete WR; always turn into a keyway groove. Please refer to the Master Surface Preparation Guide on our website for more information.

**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 sq. ft. and your area is 20 feet wide, you would make a mark every 5 feet (100 divided by 20 = 5).

### MIXING AREA

Select a convenient mix area as close as possible to the application area and protect the surface from spillage by covering with a layer of cardboard and/or a sheet of plastic. Be generous with the amount of space allocated for this function. DO NOT MIX UNTIL READY FOR IMMEDIATE USE. Do not mix this product in direct sunlight or when temperatures exceed 85°F. Exposure to high temperatures will greatly reduce the working time of this product.

### PRIMING

Prime with Poly-Crete TF for Poly-Crete WR applications. On oily concrete slabs, Hi-Speed Detergent/Degreaser is recommended. Be sure to apply primer **before** oil has a chance to "wick" up to the top of the slab and migrate across the surface.

### JOINT GUIDELINES

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

## APPLICATION METHOD

Poly-Crete WR cove base should be installed prior to installing the floor. Poly-Crete WR must be applied over a tacky primer of Poly-Crete TF Plus. Resuflor Cove Rez can also be used if desired, see product data sheet for mixing instructions.

Poly-Crete WR can be installed over concrete, brick, CMU block, plywood, drywall and other properly prepared surfaces.

## 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  $\frac{1}{2}$ " 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  $\frac{1}{2}$ " 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. Working quickly, apply the material to the wall with a focus on just getting the entire batch of material onto the wall as quickly as possible using a "hot dog" mini roller and/or chip brush.
- C. Once the material batch is consumed, go back and re-roll or brush out any thick spots, taking care to make sure all surface areas are primed. **Note:** Any areas that soak in or become tack-free must be reprimed. Primer should stay tacky for 30 minutes @ 70°F.

## MORTAR

- A. Poly-Crete WR is supplied in pre-measured units consisting of one pail of resin, one pail of hardener and one bag of aggregate (powder). Pour hardener into a 5-gallon pail; scrape bottom and sides to ensure all material is transferred. Add resin into the 5-gallon pail — again, scraping the bottom and sides of the container to ensure all material is transferred. **A Bird Cage mixer is not recommended for this product**, however, a low-speed, < 500 RPM high-torque power drill and spiral mixing blade may be used. Use a 5-gallon pail mixer; add the entire bag of aggregate to the resins as the mixer is turning. Mix until all the aggregate is wet out. **This is very important! THOROUGH BLENDING IS MANDATORY.** A properly mixed batch applies easier and has a uniform surface appearance. Incomplete mixing will cause an inconsistent finish or possible blistering.
- B. Immediately pour the entire mix out in a bead next to the primed wall(s).
- C. Using a wide putty knife, drywall knife or 3" x 8" trowel, apply the mortar to the tacky primer.
- D. Form and finish the cove using a 4" or 6" cove trowel. Commercial window cleaner or solvent can help as a trowel lubricant to tightly close the surface of the cove mortar. **Note:** Leftover mortar can be used to make rub stones that work well to rub off any rough spots after 8-10 hours of cure.
- E. The cove should be sealed with a topcoat resin. Please consult your sales representative for options.

## CURE

Allow a minimum of 10 hours cure before light foot traffic at 70°F, and a minimum of 24 hours is required at 60°F. Additional time must be allowed for heavier loads or lower temperatures. Contact the Sherwin-Williams HPF Technical Department for more information regarding cure times at different temperatures.

## LIMITATIONS

Exposure to ultraviolet light will change the color of Poly-Crete WR (grey and blue). Sunlight and metal halide lighting will cause yellowing without affecting the performance. As an option, a coat of Poly-Crete Color-Fast can be applied to prevent ambering. Many acids will cause a bleaching of pigment without affecting performance.

**Note:** Do not apply at temperatures below 60°F (16°C) or above 85°F (29°C). Do not apply to unreinforced sand cement screeds, asphalt or bitumen substrates, glazed tile, magnesite, copper, aluminum, polyesters, metal, or elastomeric membranes.

## STORAGE CONDITIONS

Poly-Crete WR must be stored dry. Exposure of the aggregate to moisture for an extended period will cause lumps. Do not allow resins to freeze. Frozen (crystallized) hardener must be heated above 100°F to melt crystals. The shelf life is 6 months from date on label in the original unopened container.

**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](http://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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