

## RESUFLO<sup>TM</sup> TOPCOAT SDE

The following information is to be used as a guideline for the installation of Resufloor Topcoat SDE. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

### APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 1-3

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	Primer	Resufloor MPE	2:1	250 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L	Build Coat	Resufloor MPE	2:1	107-200 sq. ft./gal.	3, 15 or 165 gals.
<100 g/L	Topcoat	Resufloor SCT	Premeasured kit	80-100 sq. ft./gal.	3.05 gals.

### 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.

### INSTALLATION

#### SURFACE PREPARATION — GENERAL

Sherwin-Williams systems can be applied to a variety of substrates if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Sherwin-Williams Technical Service Department prior to starting the project. Refer to Surface Preparation Form G-1.

#### SURFACE PREPARATION — CONCRETE

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile depending upon the system selected. Refer to Form G-1.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system-compatible filler. For recommendations, consult the Sherwin-Williams Technical Service Department.

### TEMPERATURE

Throughout the application process, substrate temperature should be 50°F-90°F. Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible. Protect material from freezing prior to installation.

### GENERAL PRODUCT INFORMATION

#### OPTIONS

Use the same color in Resufloor MPE and Resufloor SCT. White is not recommended for this system.

**Colors in Resufloor MPE:** Use colorants at a rate of one unit per 3-gallon mix. Standard colorants – Yellow, Light Gray and Rotunda Red – will not impart total hide. Use these colorants at a rate of two units per 3-gallon mix. Similar colorants also may not hide as well. Refer to Color Selection Guide or consult Sherwin-Williams Technical Support.

**Colors in Resufloor SCT:** Use colorants at a rate of 1/2 pint (8 fluid ounces) per 3.05-gallon mix. **DO NOT** use White. Light Gray, Canada Gray, Steel Gray, Sandy Beige and Tile Red may be used. Consult Technical Support if additional colorants are desired as they may not be compatible.

#### LIMITATIONS

**Colors:** The use of color is required in Resufloor SCT. **DO NOT USE WHITE.**

**Hide:** The topcoat must be applied over a pigmented base or existing coating of similar color to obtain color hide in Resufloor SCT. The resulting system color will be closer to the basecoat.

**Contamination (Fisheyes):** Product may fisheye if oil, silicones, mold release agents or other contaminants are present.

## PRIMER – RESUFLO MPE

A thin coat of primer will wet out concrete, help seal off concrete pores and minimize outgassing bubbles. Apply a tight coat of primer with a clean, flexible squeegee. Backrolling is not recommended. There should be no mil build over the high spots of the concrete.

**COVERAGE RATE:** Much of this will soak into porous concrete. One gallon of Resuflo MPE will cover 250 square feet per gallon.

**PREMIX PART A** using a Jiffy® mixer blade and slow-speed drill (This is required for both 3-gallon and full-filled 5-gallon units. For full-filled 5-gallon pails, pour out 2 gallons into a measuring container). Then, pour the measured Part A into a mixing pail.

**ADD RESUFLO MPE PART B TO PART A (3 GALLONS TOTAL MIX).** For full-filled 5-gallon pails, pour out 1 gallon Part B into a measuring container that is separate from the one used with the Part A. Then, add the measured Part B to the Part A already in the mixing pail. **POTLIFE:** Mix only enough material which can be applied within the work time (time between the addition of Part B to Part A and the completion of all application actions). Check the following chart for work times at various temperatures. For smaller quantities, use 2 parts Part A to 1 part Part B by volume.

### APPROXIMATE WORK TIME:

65°F	70°F	73°F	80°F	90°F
40 mins	30 mins	25 mins	20 mins	15 mins

**MIX FOR 2 MINUTES** using a Jiffy mixer blade and slow-speed drill. (Failure to do so could result in lower/diminished coating properties.)

**IMMEDIATELY POUR ALL OF THE MIXED MATERIAL** onto the floor in a single bead.

**PUSH THE SQUEEGEE** at an even speed and down pressure to apply the desired thickness. **NOTE:** The use of spiked shoes will allow freedom of movement on the wet floor.

**CAUTION:** The surface will be slippery.

**START THE SECOND AND REMAINING PASSES** by pushing material parallel to the first stroke. Hold the bead of material near the center of the bar. **NOTE:** Resuflo MPE applied thin may “bridge” holes and cracks momentarily before soaking in — make sure the previously squeegeed area is overlapped (halfway).

**TO REDUCE OUTGASSING BUBBLES,** it is best to wait until the primer has set up enough to walk on before applying the build coat of Resuflo MPE.

The primer must be coated within 24 hours at floor temperatures of 65°F-90°F.

## BUILD COAT – RESUFLO MPE

**COVERAGE RATE:** At least 8 mils on top of the primer are recommended for complete hide. One gallon of Resuflo MPE will cover:

200 square feet at 8 mils wet/dry film

133 square feet at 12 mils wet/dry film

107 square feet at 15 mils wet/dry film

**REPEAT STEPS** used for mixing and spreading of the primer coat.

**COLORS:** Premix Sherwin-Williams colorants to ensure uniform color. Colorant is added at the rate of 1 unit per 3-gallon mix. **NOTE:** When using colorant in the bulk units, add the colorant to the Part A that has been measured into the “mixing pail.”

**BACKROLL THE MATERIAL** with a 3/8" nap roller for a smooth, uniform appearance. Backrolling is required to remove the puddles and squeegee lap marks in order to obtain uniform texture and a consistent mil thickness.

If Resuflo MPE is topcoated with Resuflo SCT at floor temperatures of 65°F-90°F, it does not need to be sanded if the Resuflo SCT is applied within 24 hours.

Resuflo MPE must be sanded if applying Resuflo SCT after 24 hours. Use 80 grit paper. The use of more aggressive paper will introduce deep grooves that will not be covered by a single, thin coat of urethane. We recommend thorough sanding with a swing-type buffer so that multiple scratch marks cause an obvious gloss loss on all areas (depressions will remain shiny), and the floor is uniformly dulled. The ability to see individual scratch marks is an indication that sanding is not adequate. Scrub with detergent, rinse with clean water and allow floor to dry before coating. Tack rag to remove fine dust.

## ELECTRICAL GROUNDING

If Resuflo SCT is the primary ground, then a grounding system that meets the customer’s specifications needs to be connected to the common ground of the facility. If copper tape is used, install the copper tape on the insulator coat, underneath the Resuflo SCT.

## TOPCOAT – RESUFLO SCT

**COVERAGE RATE:** One 3.05-gallon kit of Resuflo SCT will cover:

325 square feet at 15 mils wet/dry film

244 square feet at 20 mils wet/dry film

**PREMIX PART A USING A JIFFY MIXER BLADE** with slow-speed drill. **POTLIFE:** Mix only enough material which can be used within 25 minutes.

**PREMIX PART B BY SHAKING THE CAN 10 TIMES** before adding it to the Part A.

**WHILE CONTINUING TO MIX THE PART A, ADD PART B. MIX FOR 1 MINUTE** using a Jiffy mixer blade and slow-speed drill.

**POUR MIXED PARTS A/B INTO PART C** while mixing.

**MIX FOR 3 MINUTES** using a Jiffy mixer blade and slow-speed drill. Move the blade up and down the sides of the pail and across the bottom to ensure contents are thoroughly mixed so no dry filler remains. **If the filler is not properly dispersed, the electrostatic discharge properties of the coating may be diminished.**

**COLORS:** Use colorants at a rate of 1/2 pint (8 fluid ounces) per 3.05 gallons of Resuflo SCT. Premix colorant before adding to the combined Parts A/B/C to ensure uniform color. Add colorant to combined Parts A/B/C and mix using a Jiffy mixer blade and slow-speed drill. Mix until well-blended.

**IMMEDIATELY POUR ALL THE MIXED MATERIAL** onto the floor in a single bead. Wet out the mohair roller (that will later be used for backrolling) in the bead of material.

**PUSH THE NOTCHED SQUEEGEE** at an even speed with down pressure.

1/8" notched squeegee to apply 15-20 mils\*.

\*These guidelines were arrived at by using new squeegees on smooth concrete with little applied pressure. The application rate is affected by worn squeegees, applied pressure and texture of the concrete.

**ROLL THE MATERIAL PERPENDICULAR TO THE WAY IT WAS SQUEEGEED.** Backrolling the material with a mohair roller will more efficiently fill in imperfections (holes).

**ALLOW COATING TO CURE 24 HOURS at 75°F** before opening to light traffic. Allow more time at low temperatures and for heavier traffic.

**TEST THE SURFACE RESISTIVITY** after 24 hours, to confirm system falls within product specifications. The final reading should be taken after a 7-day cure period and recorded as a baseline for future audits. Full coating properties take 14 days to develop.

## CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

## SAFETY PRECAUTIONS

Refer to the SDS before use. Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

## MATERIAL STORAGE

Store materials in a temperature-controlled environment of 50°F-90°F and out of direct sunlight. Keep resins, hardeners and solvents separated from each other and away from sources of ignition.

## MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Sherwin-Williams Technical Service Department.

## DISCLAIMER

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication.

Consult [www.sherwin-williams.com/resin-flooring](http://www.sherwin-williams.com/resin-flooring) to obtain the most recent product data information and application instructions.

## WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams.

NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**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.

**United States & Canada**

[sherwin-williams.com/resin-flooring](http://sherwin-williams.com/resin-flooring)  
[swflooding@sherwin.com](mailto:swflooding@sherwin.com)

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