

RESUFLO[™] TOPCOAT METALLIC II

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

APPLICATION INFORMATION – SURFACE PREP PROFILE CSP 3

IF MOISTURE REMEDIATION IS REQUIRED, REFER TO CSP-4

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE	PACKAGING
<50 g/L	Primer	MPE	2:1	250 sq ft/gal	3, 15 or 265 gal
<50 g/L	Pigmented Basecoat	MPE	2:1	200 sq ft/gal	3, 15 or 265 gal
<50 g/L	Metallic Coat	UVE Metallic Colored Pigment	2:1 Add 4-8 fluid oz./ mixed gallon UVE	100 sq ft/gal	15 gal
<100 g/L	Topcoat	HTS 100	Pre-measured kit	500 sq ft/gal	1.09 or 5.5 gal

*The pigment load of 4-8 oz/gal can vary depending on color.

ALTERNATE SYSTEM #1

<100 g/L	Topcoat	HPS 100	Pre-measured kit	500 sq ft/gal	0.94 or 4.7 gal
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INSTALLATION

Sherwin-Williams High Performance Flooring materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the Resuflo Topcoat Metallic II. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

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 system selected. Refer to Form G-1.

Resuflo Topcoat Metallic II is a smooth system – substrate imperfections must be corrected or they can reflect through the system. 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:

PRIME COAT: RESUFLO[®] MPE Choose standard colorant depending on the desired look. Use colorant at a rate of 1 pint per 3-gallon mix.

BASE COAT: RESUFLO MPE Choose standard colorant depending on the desired look. Use colorant at a rate of 1 pint per 3-gallon mix.

METALLIC COAT: RESUFLO UVE Mix the metallic color pigment with Resuflo UVE and apply it over a colored basecoat. Use metallic pigment at a rate of 12-24 ounces per 3-gallon mix.

LIMITATIONS:

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

Chemical Resistance/Staining: Reduced chemical resistance and staining is possible in pigmented versions of the system.

PRIMER – RESUFLO MPE

A thin coat of primer will wet out concrete, help seal off concrete pores and minimize outgassing bubbles. Apply a light coat of primer with a clean, flexible squeegee. and back-roll with a 3/8" nap roller. One gallon of Resuflo MPE will cover 250 square feet.

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 a 3 gallon mix, pour 1-gallon of part B into mixing pail. Add 2-gallons of part A. **POTLIFE:** Mix only enough material that 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	75°F	80°F	90°F
40 min	30 min	25 min	20 min	15 min

MIX FOR 3 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 FLAT SQUEEGEE at an even speed with sufficient down pressure to apply the thinnest coat. **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 65°F-90°F.

PIGMENTED BASECOAT – RESUFLO MPE

NOTE: A pigmented basecoat **MUST** be applied to serve as a canvas for the translucent metallic coat. It is important to note that the color of the basecoat will influence the overall appearance of the floor since the metallic coat is translucent. For example, a white or light basecoat will create a lighter final appearance than a black or darker basecoat, which will darken the metallic look.

COVERAGE RATE: One gallon of Resuflo MPE will cover:
200 square feet at 8 mils wet/dry film.

REPEAT STEPS used for mixing and spreading of the primer coat. Use a notched squeegee to increase the thickness applied.

COLORS: Premix Sherwin-Williams High Performance Flooring Colorant to ensure uniform color. Colorant is added at the rate of 1 pint per 3-gallons 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 uniformed appearance. Backrolling is required to remove the puddles and squeegee lap marks in order to obtain uniform texture and a consistent mil thickness. **NOTE:** Get off the Resuflo MPE as soon as possible.

Resuflo MPE must be coated with Resuflo UVE at floor temperatures of 65°F-90°F within 24 hours.

METALLIC COAT – RESUFLO UVE WITH METALLIC PIGMENT

COVERAGE RATE: One gallon of Resuflo UVE will cover: 100 square feet at 16 mils wet/dry film.

NOTE: DO NOT apply Resuflo MPE with the Metallic Color Pigment at less than 100 square feet at 16 mils wet/dry film as the “deep metallic look” will not be achieved. Application range should be between 15-20 mils (80 to 107 square feet).

PREMIX PART A using a Jiffy® mixer blade and slow speed drill. Pour out 2 gallons into a measuring container. Then, pour the measured Part A into a mixing pail.

COLORS: Sherwin-Williams Metallic Color Pigments are added at the rate of 12 ounces per 3 gallons of mixed Resuflo UVE (A+B). **NOTE:** Add the Metallic Color Pigment to the Part A that has been measured into the “mixing pail.”

ADD RESUFLO UVE PART B TO PART A (3 GALLONS TOTAL MIX). Pour out 1 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 that 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	75°F	80°F	90°F
50 min	40 min	35 min	30 min	25 min

MIX FOR 3 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. A notched squeegee can be used to increase the thickness applied.

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 and push at an even speed and down pressure.

BACKROLL THE MATERIAL with a 3/8” nap roller for a smooth uniformed appearance. Backrolling is required to remove the puddles and squeegee lap marks in order to obtain uniform texture and a consistent mil thickness. **NOTE:** Get off the Resuflo UVE as soon as possible.

Let the coating “rest” for 15 minutes. The beauty of this system comes from disturbing the surface in a random manner. A variety of methods can be used; a couple examples: Freely swirl the roller in a random figure-eight motion to mimic the look of natural stone or rock formations. Denatured alcohol may be spritzed over the surface to cause incompatibility and create unique metallic effects.

Resuflo UVE must be topcoated with Resutile™ HTS 100 at floor temperatures of 65°F-90°F within 24 hours.

TOPCOAT – RESUTILE® HTS 100

RESUTILE HTS 100 CLEAR

PREMIX RESUTILE HTS 100 PART A FOR 3 MINUTES USING A JIFFY® MIXER BLADE with slow speed drill. **POTLIFE:** Mix only enough material that can be used in a two-hour period.

NOTE: Once opened, this material cannot be resealed for later use.

POUR PART C INTO PART A while mixing. **CONTINUE TO MIX AND ADD PART B. MIX FOR 3 MINUTES** using a Jiffy® mixer blade and slow speed drill. Pour into application tray.

Apply Resutile HTS 100 at the rate of 500 square feet/gallon with a 3/8” nap roller. For proper appearance and development of physical properties, it is crucial that material is not applied above or below this rate. Dip the roller in the coating and lightly roll out excess in the application tray. Apply two 8- to 10-foot-long paths on the concrete, making one stroke left to right and one right to left. Rewet the roller and apply two more paths adjacent to the first pair. Rewet roller and apply a third pair adjacent to the second.

Spread the material evenly with V-shaped cross passes.

MAKE SURE THE FLOOR HAS JUST ENOUGH COATING TO COVER EVENLY. Excess material could cause the floor to blister, especially in high humidity. Insufficient material will cause the floor to look non-uniform.

LEVEL THE AREA with straight passes that cross the initial material paths. These final strokes will reduce roller marks. If the appearance is not satisfactory, reroll the area.

REMIX THE MATERIAL in the tray occasionally (with the roller) to prevent settling of the Part C (filler).

NOTE: When multiple applicators are used to apply material, inconsistencies between areas may result. To ensure a more uniform finish, an individual outfitted with spiked shoes may finish by pushing or pulling a roller across all applicator areas.

ALLOW COATING TO DRY 24 HOURS at 75°F, 50% relative humidity, before opening to light traffic. Allow more time at low temperatures, low humidity or for heavier traffic. 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 all 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 40°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 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.

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

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