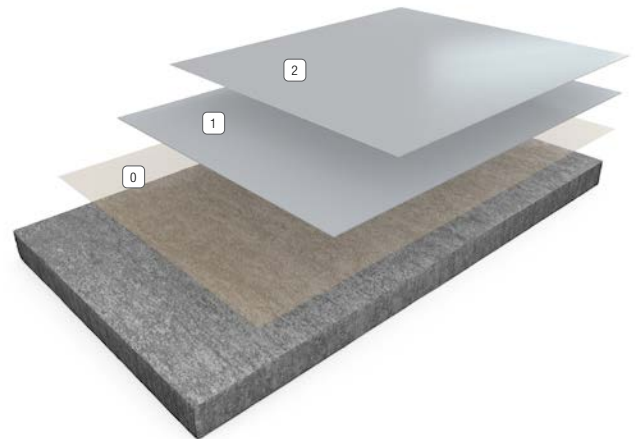


RESUFLOOR™ PERFORMANCE HPS

Sherwin-Williams Resufloor Performance HPS is a high-traffic surface that offers outstanding durability. The system is comprised of a high-solids epoxy applied at 3 to 5 mils as a primer and 7 to 13 mils as a build coat. The topcoat is a light-stable, chemical-resistant urethane with a gloss finish.



- 0 Primer
- 1 Build Coat
- 2 Topcoat

BENEFITS

- Long-lasting concrete protection
- UV-light stable over the expected life of the coating
- High gloss finish increases brightness and light reflectivity
- Available in a variety of standard and custom colors
- Resistant to a broad range of chemicals
- Customizable slip resistance
- Low-odor installation

USES

- Aerospace hangars
- Vehicle maintenance facilities
- Automotive manufacturing
- Pharmaceutical plants
- Packaging and logistics operations
- Assembly and production areas
- Laboratories and clean rooms

TYPICAL PHYSICAL PROPERTIES

Abrasion Resistance ASTM D4060 Taber Abraser CS-17 Wheel, 1,000 g load, 1,000 cycles	18.8 mg/loss Result based on independent lab testing of Resutile™ HPS
Adhesion ASTM 4541	450 psi concrete failure
Adhesion ASTM 7134	732 psi concrete failure
Flammability ASTM 4366	182 mm/min
Hardness, Shore D ASTM D2240	80-85 @ 0 sec 75-80 @ 15 sec

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 Performance HPS. 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 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 50-95°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.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 1-3

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE	PACKAGING
<50 g/L	Primer	MPE	2:1	321-535 sq ft / gal	3, 15, 165 or 750 gals
<50 g/L	Build Coat	UVE	2:1	123-228 sq ft / gal	3, 15, 165 or 750 gals
<50 g/L	Topcoat	HPS 100	Pre-measured kit	500 sq ft / gal	0.94 or 4.7 gals

ALTERNATE SYSTEM #1

<100 g/L	Primer	3746 FC	2:1	53-159 sq ft / gal	3 or 15 gals
<100 g/L	Build Coat	3746 FC	2:1	53-159 sq ft / gal	3 or 15 gals

GENERAL PRODUCT INFORMATION

OPTIONS:

Colors in Resufloor MPE: Use colorants at a rate of one unit per 3-gallon mix. Standard colorants — White, Bright Yellow, Light Gray 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 ResutileTM HPS 100: Use colorants at a rate of one unit per 1-gallon mix. Standard Colorants — White, Yellow and Sandy Beige will not impart total hide. Similar colorants also may not hide as well. Refer to Color Selection Guide or consult Sherwin-Williams Technical Support.

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 are possible in pigmented versions of the system.

PRIMER – RESUFLOOR 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. **NOTE:** If faster cure times are required, use Resufloor 3746 FC.

COVERAGE RATE: Much of this will soak into porous concrete. One gallon of Resufloor MPE will cover:

535 square feet at 3 mils wet/dry film

400 square feet at 4 mils wet/dry film

321 square feet at 5 mils wet/dry film

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

Then, pour the measured Part A into a mixing pail.

COLORS: Premix Colorants to ensure uniform color. Colorant is added to the Part A and mixed using a Jiffy® mixer blade and slow speed drill. **NOTE:** When using colorant in the bulk units, add the colorant to the Part A that has been measured into the “mixing pail.” Pre-pigment the primer the same color that the seed coat of Resufloor MPE will be to help with hide.

ADD RESUFLOOR MPE PART B TO PART A (3 GALLONS). 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 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 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 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:** Resufloor 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 seed coat of Resufloor MPE. The primer must be coated within 24 hours at floor temperatures 65-90°F.

BUILD COAT – RESUFLOOR MPE

COVERAGE RATE: One gallon of Resufloor MPE will cover:

228 square feet at 7 mils wet/dry film

200 square feet at 8 mils wet/dry film

178 square feet at 9 mils wet/dry film

160 square feet at 10 mils wet/dry film

145 square feet at 11 mils wet/dry film

133 square feet at 12 mils wet/dry film

123 square feet at 13 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 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 Resufloor MPE as soon as possible.

RESUFLO MPE MUST BE THOROUGHLY SANDED AND CLEANED PRIOR TO APPLICATION OF RESUTILE[™] HPS 100.

Use 100 grit paper to sand Resuflo MPE. The use of more aggressive paper will introduce deep grooves that will not be covered by a single, thin coat of urethane; swirl marks will be particularly evident in a topcoat that is glossy. 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 and rinse with clean water before coating and tack rag to remove fine dust.

TOPCOAT – RESUTILE HPS 100

PREMIX PART A FOR 3 MINUTES USING A JIFFY[®] MIXER BLADE with slow-speed drill. **POTLIFE:** Mix only enough that can be used in a two-hour period. **NOTE:** Once opened, this material cannot be resealed for later use.

COLORS: Premix Sherwin-Williams colorant before adding to Resutile HPS 100 to ensure uniform color. Add colorant to Resutile HPS 100 Part A.

ADD PART B while mixing.

MIX FOR 3 MINUTES using a Jiffy[®] mixer blade and slow-speed drill. Pour into application tray.

APPLY RESUTILE HPS 100 at the rate of 500 square feet / gal 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 the 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.

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 7-14 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 50-90°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

sherwin-williams.com/resin-flooring
swflooring@sherwin.com