

RESUFLOTM SHOP FLOOR SB

The following information is to be used as a guideline for the installation of the Resufloor Shop Floor SB flooring system. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 3-5

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT	PACKAGING
<50 g/L	Primer	MPE	2:1	200-250 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L 0	Broadcast Coat	MPE 5310-8 Dry Silica Sand (20-40 mesh)	2:1	160 sq. ft./gal. 0.4-0.5 lbs./sq. ft.	3, 15 or 165 gals. 50 lbs.
<50 g/L	Grout Coat	MPE	2:1	107 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L	Seal Coat	HTS 100	Premeasured kit	535 sq. ft./gal.	1.09 or 5.5 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

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 Resufloor Shop Floor SB. 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 equal to CSP 3-5. 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 60°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.

PRIMER

MIXING AND APPLICATION RESUFLOTM 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 Resufloor MPE will cover cover 200-250 square feet at 6 to 8 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 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.

Pigment the epoxy primer the same color that the seed coat of Resufloor MPE will be to help with hide.

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.”

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 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 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 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 seed coat of Resuflo MPE. The primer must be coated within 24 hours at floor temperatures between 65°F-90°F.

BROADCAST COAT

MIXING AND APPLICATION RESUFLO MPE

COVERAGE RATE: A gallon of Resuflo MPE will cover: 160 square feet at 10 mils wet/dry film.

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

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.

APPLICATION SILICA SAND

IMMEDIATELY BROADCAST TO EXCESS WITH SILICA SAND into the uncured Resuflo MPE resin on the floor. Do not dump or pile the material. Gently scatter it onto the floor by hand tossing so as to cover the wet resin completely. A mechanical blower can be used to scatter silica sand. A coverage rate of 0.4 to 0.5 pounds per square foot of silica sand is recommended.

ALLOW SYSTEM TO CURE 8-10 hours at 75°F.

THOROUGHLY SWEEP AND VACUUM to remove loose silica sand granules from surface. DO NOT reuse swept and vacuumed silica sand unless you have taken extra precautions.

GROUT COAT

MIXING AND APPLICATION RESUFLO MPE

COVERAGE RATE: A gallon of Resuflo MPE will cover: 107 square feet at 15 mils wet/dry film.

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

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

SEAL COAT

MIXING AND APPLICATION RESUTITETM HTS 100

PREMIX 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.

COLORS: Premix colorant before adding to Resutite HTS 100 to ensure uniform color. Add colorant to Resutite HTS 100 Part A and mix using a Jiffy mixer blade and slow-speed drill. Use colorants at a rate of one unit per 1-gallon unit of Resutite HTS 100.

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 RESUTITE HTS 100 at the rate of 535 square feet per 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.

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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