

RESUFLOTM TOPFLOOR MER II

The following information is to be used as a guideline for the installation of the Resufloor Topfloor MER II 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	PACKAGING
<50 g/L	Primer	3579	2:1	250 sq ft/gal	3 or 15 gals
<100 g/L	Membrane	3555	1:1	80 sq ft/gal	2 or 10 gals
<100 g/L 0	Wearcourse Broadcast	3555 5310-8 Dry Silica Sand (20-40mesh)	1:1	130 sq ft/gal 0.25 lbs/sq ft	2 or 10 gals 50 lbs
<100 g/L	Topcoat	Resufloor 3746	2:1	100 sq ft/gal	3 or 15 gals

For additional 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 maintains a technical staff that will be glad to answer your questions and give you advice pertaining to your particular installation.

SURFACE PREPARATION

- A. 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.
- B. 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.
- C. After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Excessive surface profile may require a body coat prior to system application. Protrusions shall be ground smooth while voids shall be filled with a Sherwin-Williams system 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.

PRIMING

- A. Premix 3579A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to introduce air into the material.
- B. Add 2 parts 3579A (resin) to 1 part 3579B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
- C. 3579 may be applied via spray, roller or brush. Apply 5-8 mils, evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.
- D. Wait until primer is tacky (usually 1 hour minimum) before applying the membrane. If primer is not going to be topped within open time, broadcast silica sand into resin lightly but uniformly and allow to cure overnight.

MEMBRANE

- A. Premix 3555A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to whip air into the material.
- B. Add 1 part 3555A (resin) to 1 part 3555B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform.
- C. Immediately pour the mixed material onto the substrate and pull out using a 1/4" or 1/8" V-notched squeegee to yield 20 mils WFT and cross roll with a 3/8" nap roller. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Allow to cure overnight at 73°F surface temperature. Material cures slower at lower temperatures.
- D. After the membrane is cured, check for surface blush. Remove any blush with detergent wash prior to applying wearcourse.

WEARCOURSE

- A. Premix 3555A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to whip air into the material.
- B. Add 1 part 3555A (resin) to 1 part 3555B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform.
- C. Immediately pour the mixed material onto the substrate and pull out using a 1/8" V-notched squeegee to yield 12 mils WFT and cross roll with a 3/8" nap roller. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Allow to cure overnight at 73°F surface temperature. Material cures slower at lower temperatures.
- D. Broadcast 5310-8 Dry Silica Sand (20-40 mesh) or other Hard Aggregate to excess into wet material so no wet material is visible. Aggregate should be broadcast within one (1) hour of liquid application to ensure they are properly seated.
- E. Allow to cure. (Cure times vary depending on environmental conditions.) Sweep off excess aggregate with a clean, stiff-bristled broom. Clean aggregate can be saved for future use. All imperfections such as high spots should be smoothed before the application of the seal coat.

NOTE: The floor's finished appearance depends on the manner in which the aggregate has been applied. In grass-seed-like fashion, allow the aggregate to fall after being thrown upward and out. DO NOT THROW DOWNWARD AT A SHARP ANGLE USING FORCE.

TOPCOAT

- A. Premix 3746A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to introduce air into the material.
- B. Add 2 parts 3746A (resin) to 1 part 3746B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
- C. Apply 3746 using a flat trowel or squeegee and backroll with a 1/4" nap roller at a spread rate of 100 square feet per gallon, evenly, with no puddles-making sure of uniform coverage. Take care not to puddle materials and ensure even coverage.
- D. Allow to cure 24 hours minimum before opening to traffic.

NOTE: Epoxy materials will appear to be cured and "dry to touch" prior to full chemical cross linking. Allow 3746 to cure for 2-3 days prior to exposure to water or other chemicals for best performance.

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 (40°F to 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.

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](https://www.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](https://www.sherwin-williams.com/resin-flooring)

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