

## RESULFOR™ TOPFLOOR MER I

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

### APPLICATION INFORMATION

| VOC MIXED | APPLICATION STEP | PRODUCT                                                     | MIX RATIO        | THEORETICAL COVERAGE PER COAT | PACKAGING        |
|-----------|------------------|-------------------------------------------------------------|------------------|-------------------------------|------------------|
| <100 g/L  | Membrane         | Resufloor™ 3555                                             | 1:1              | 80 sq ft/gal                  | 2 or 10 gals     |
| <100 g/L  | Wearcourse       | Resufloor 3555                                              | 1:1              | 130 sq ft/gal                 | 2 or 10 gals     |
| 0         | Broadcast        | 5310-8 Dry Silica Sand (20-40 mesh) or Other Hard Aggregate | N/A              | 0.10 lbs/sq ft                | 100 lbs          |
| <50 g/L   | Seal Coat        | Resutile™ HPS 100                                           | Pre-measured kit | 500 sq ft/gal                 | 0.94 or 4.7 gals |

For additional topcoat options, consult the Sherwin-Williams Topcoat Selection Guide or contact your Sherwin-Williams Representative.

### 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 Topfloor MER I System. 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 off gassing. The material should not be applied in direct sunlight, if possible.

## MEMBRANE

### MIXING AND APPLICATION

1. 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.
2. 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.
3. 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.
4. After the membrane is cured, check for surface blush. Remove any blush with detergent wash prior to applying wearcourse.

## WEARCOURSE

### MIXING AND APPLICATION

1. 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.
2. 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.
3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" or 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. Material cures slower at lower temperatures.
4. Broadcast 5310-8 Dry Silica Sand (20-40 mesh) or other Hard Aggregate at 0.10 lbs per sq ft (10 lbs per 100 sq ft; 100 lbs per 1,000 sq ft) 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.
5. Allow to cure. (Cure times vary depending on environmental conditions.) Sweep off excess aggregate with a clean, stiffbristled 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.

## SEALCOAT

### MIXING AND APPLICATION

1. 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.

2. ADD PART B while mixing. MIX FOR 3 MINUTES using a Jiffy mixer blade and slow-speed drill. Pour into application tray.
3. APPLY RESUTILE HPS 100 at the rate of 500 sq ft/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.

4. 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 (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](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.

## 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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### United States & Canada

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