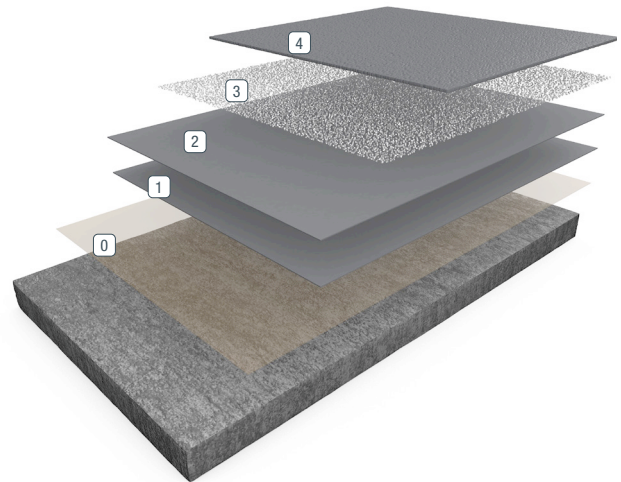


## RESUFLOOR™ TOPFLOOR MER II (MECHANICAL EQUIPMENT ROOM)

### Sherwin-Williams Resufloor Topfloor MER II (Mechanical Equipment Room) System

combines Resufloor crack bridging and waterproofing capabilities with a chemically resistant topcoat. An optional wearcourse of Resufloor broadcast with hard aggregate would provide increased wear, impact, and abrasion resistance. Resufloor achieves flexibility without the use of plasticizers or other additives which can separate or migrate as the system ages. This means that the product remains flexible and continues to function for many years. Fiberglass scrim may be incorporated into the system to add tensile strength.



- 0 Primer
- 1 Resufloor (20 mils) neat membrane Primer
- 2 Resufloor (12 mils) Wearcourse
- 3 Broadcast
- 4 Topcoat

### BENEFITS

- Bridges hairline cracks – aiding in suppression of cracks reflecting through the system due to substrate movement
- Durable and slip resistant
- Waterproof
- Chemical and stain resistant
- Fiberglass scrim optional for maximum tensile strength
- LEED® v4 compliant

### USES

- Mechanical equipment rooms
- Mezzanines
- Clean rooms
- Lockers rooms and showers
- Computer rooms

### TYPICAL PHYSICAL PROPERTIES

<b>Hardness, Shore D</b> ASTM D 2240	50/40
<b>Tensile Strength</b> ASTM D 412	1,700 psi
<b>Elongation</b> ASTM D 412	80%
<b>Adhesion</b> ACI 503R	300 psi concrete failure
<b>Abrasion</b> ASTM D 4060, CS-17 Wheel, 1,000 cycles	100 mgs lost
<b>Flammability</b>	Self-Extinguishing over concrete
<b>Thermal Cycling</b> ASTM C 884 (24 hours, -21°C to 25°C) ASTM C = Mortar system ASTM D = Resin only	No

## 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 II (Mechanical Equipment Room) 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 60-90°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.

## APPLICATION INFORMATION

VOC MIXED	APPLICATION STEP	MATERIAL	MIXED RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	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 .25 lbs / sq ft	2 or 10 gals 50 lbs
<50 g/L	Topcoat	3746 Premeasured units	2:1	100-150 sq. ft. / gal	3 or 15 gals

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

## PRIMER

### MIXING AND APPLICATION

If priming is done to reduce outgassing, allow to cure overnight before topping

1. 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.
2. 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.
3. 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.
4. 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

### 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 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.
5. 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

### MIXING AND APPLICATION

1. 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.
2. 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.
3. Apply 3746 using a flat trowel or squeegee and backroll with a 1/4" nap roller at a spread rate of 100-150 sq. ft. per gallon, evenly, with no puddles making sure of uniform coverage. Take care not to puddle materials and ensure even coverage.
4. Allow to cure 24 hours minimum before opening to traffic. 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 sheet 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.

## 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.

### United States & Canada

[sherwin-williams.com/resin-flooring](http://sherwin-williams.com/resin-flooring)  
[swflooding@sherwin.com](mailto:swflooding@sherwin.com)