

## RESUFLO<sup>TM</sup> MECHANICAL ROOM

The following information is to be used as a guideline for the installation of the Resuflo Mechanical Room 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                  | Resuflo <sup>TM</sup> MPE                           | 2:1              | 250 sq ft/gal                     | 3 or 15 gals      |
| <100 g/L  | 1st Flexible Membrane   | Resuflo <sup>TM</sup> 3555<br>5310-9Dry Silica Sand | 1:1              | 80 sq ft/gal<br>0.4-0.5 lbs/sq ft | 10 gals<br>50 lbs |
| <100 g/L  | 2nd Flexible Build Coat | Resuflo 3555                                        | 1:1              | 80 sq ft/gal                      | 10 gals           |
| <50 g/L 0 | Reinforcement Coat      | Resuflo MPE                                         | 2:1              | 107 sq ft/gal                     | 3 or 15 gals      |
| <50 g/L   | Topcoat                 | Resutite <sup>TM</sup> HTS 100                      | Pre-Packaged Kit | 535 sq ft/gal                     | 1.09 or 5.5 gals  |

### INSTALLATION

Sherwin-Williams materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the Resuflo Mechanical Floor. 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 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°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. Protect material from freezing prior to installation.

## GENERAL PRODUCT INFORMATION

### PRIMER – RESUFLO<sup>™</sup> MPE

1. Premix Resuflo MPE Part A using a Jiffy<sup>®</sup> mixer blade and slow speed drill. Mix for one minute until uniform, exercising caution not to whip air into the material.
2. Add 2-parts Resuflo MPE Part A to 1-Part B by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform.
3. Immediately pour mixed material onto the surface and spread out using a flat squeegee and cross rolling with a 3/8" nap roller taking care not to leave puddles or dry spots. Coverage will vary depending upon porosity of the substrate and surface texture.

### 1ST FLEXIBLE BUILD COAT – RESUFLO<sup>™</sup> 3555

COVERAGE RATE: A gallon of Resuflo 3555 will cover: 80 sq ft at 20 mils wet/dry film.

1. Premix 3555A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to whip air in 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 materials onto the substrate and spread out using a 1/8" V-notched squeegee to yield 20 mils WFT and cross roll with a 3/8" nap roller.

### 2ND FLEXIBLE BUILD COAT – RESUFLO 3555

COVERAGE RATE: One gallon of Resuflo 3555 will cover: 80 sq ft at 20 mils wet/dry film. Allow the build coat of Resuflo 3555 to set until you can walk on it.

REPEAT STEPS used for mixing and spreading of the flexible build. A 1/16" notched squeegee can be used to increase the thickness applied.

TO AVOID INDENTATION/COMPRESSION of heavy objects, Resuflo 3555 must be coated with a minimum of 8 mils of Resuflo MPE before traffic or a thin urethane is applied. Resuflo 3555 should be set before applying Resuflo MPE. Resuflo 3555 must be coated with Resuflo MPE at floor temperatures of 65°F-90°F within 24 hours.

### REINFORCEMENT COAT – RESUFLO MPE

COVERAGE RATE: One gallon of Resuflo MPE will cover: 107 sq ft at 15 mils wet/dry film.

1. Premix Resuflo MPE part A using a Jiffy mixer blade and slow speed drill. Mix for one minute until uniform, exercising caution not to whip air into the material.
2. Add 2-parts Resuflo MPE Part A to 1-Part B by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform.
3. Immediately pour mixed material onto the surface and spread out using a flat squeegee and cross rolling with a 3/8" nap roller taking care not to leave puddles or dry spots. Coverage will vary depending upon porosity of the substrate and surface texture.

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).

BACKROLL THE MATERIAL with a 3/8" nap roller for a smooth, uniform appearance. Backrolling is required to remove the puddles and squeegee lap marks in order to obtain uniform texture and a consistent mil thickness. Resuflo MPE must be topcoated with Resutile HTS 100 at floor temperatures of 65°F -90°F within 24 hours.

### TOPCOAT – RESUTILE<sup>™</sup> HTS 100

PREMIX PART A FOR THREE 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 Resutile HTS 100 to ensure uniform color. Add colorant to Resutile 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 Resutile HTS 100.

POUR PART C INTO PART A while mixing.

CONTINUE TO MIX AND ADD PART B. MIX FOR THREE MINUTES using a Jiffy mixer blade and slow speed drill. Pour into application tray.

APPLY RESUTILE HTS 100 at the rate of 500 sq ft/gal with a 3/8" (10 mm) 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.

## 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 (50°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 [sherwin-williams.com/resin-flooring](https://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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