

RESULFOR™ SCREED M46

The following information is to be used as a guideline for the installation of the Resuflor Screed M46 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
<50 g/L	Primer	Resuprime™ 3579	2:1	250 sq ft/gal	3 or 15 gals
<50 g/L 0	Mortar	Resuflor™ MPE Malleable Aggregate 5326	2:1	18 sq ft/0.75 gal mix @ 1/4-in 80 lbs/0.75 gals	3, 15 or 165 gals 40 lbs
<100 g/L	Optional Seal Coat	Resuflor™ PT 250	2:1	200 sq ft/gal	3 or 15 gals

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

INSTALLATION

The following information is to be used as a guideline for the installation of the Resuflor Screed M46. 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 Sherwin-Williams system 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.

PRIMER – RESUPRIME™ 3579

MIXING AND APPLICATION

1. Add 2 parts 3579A (resin) to 1 part 3579B (hardener) by volume. Mix with low-speed drill and Jiffy® mixer for three minutes until uniform.
2. Apply via brush, roller or spray at a rate of 250 sq ft/gal (6 wft mils). Wait for primer to become tacky (usually 1 hour minimum). This prevents primer bleed through and sliding during mortar placement. If primer cures for more than 4 Hours, broadcast lightly but uniformly with clean, dry 20-30 mesh aggregate.

MORTAR – RESUFLO[™] MPE AND 5324 AGGREGATE

MIXING AND APPLICATION

1. Premix Resuflo MPE part A using a Jiffy mixer blade and slow speed drill. Mix for one minute until uniform.
2. Add 0.5 gal Resuflo MPE part A to .25 gal part B by volume. Mix with low-speed drill and mortar mixing blade for three minutes until uniform.
3. While mixing, add 80 lbs of malleable aggregate 5326. Mix until aggregate is fully wet out and uniform.
4. Immediately place mortar with a screed box set at 3/8” thickness.
5. Compact the mortar screed by power-trowel or hand troweling to 1/4” thickness.

POTLIFE: Mix only enough material which 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.

APPROXIMATE WORK TIME

65°F (18.3°C)	70°F (21.1°C)	75°F (23.9°C)	80°F (26.7°C)	90°F (32.2°C)
40 min	30 min	25 min	20 min	15 min

MIX FOR 2 MINUTES using a Jiffy mixer blade and slow speed drill. (Failure to do so could result in lower/diminished coating properties.)

TOPCOAT (OPTIONAL) – RESUFLO[™] PT250

MIXING AND APPLICATION

COVERAGE RATE: 5-8 mils (0.13-0.20 mm), 200-320 sq ft/gal (18.6-29.7 m² per 3.78 litres).

COLORS: Premix Sherwin-Williams Colorant before adding to Resuflo PT 250 Topcoat to ensure uniform color. Add colorant to Resuflo PT 250 Topcoat Part A and mix using a Jiffy mixer blade and slow speed drill.

ADD RESUFLO MPE/RESUFLO PT 250 TOPCOAT Part B TO RESUFLO PT 250 TOPCOAT PART A and mix well using a Jiffy mixer blade and slow speed drill.

MIX FOR 2-3 MINUTES using a Jiffy mixer blade. POTLIFE: Mix only enough material which can be applied within 20 minutes.

POUR THE MIXTURE IN A BEAD over the cured Resuflo PT 250 mortar or epoxy. WITH A SQUEEGEE, SPREAD THE RESUFLO PT 250 TOPCOAT. Sealing without backrolling will minimize texture. BACKROLL WITH A 3/8-inch NAP ROLLER for a uniform finish. The use of spiked epoxy shoes will allow freedom of movement on the wet floor. NOTE: If backrolling, to ensure a more uniform texture, a separate individual may finish roll by pushing or pulling a roller across the floor in one direction. Unpigmented Resuflo PT 250 Topcoat will dry “milky” if put down at more than 6 mils (0.15 mm). ALLOW SYSTEM TO CURE 8-10 hours at 75°F (24°C).

APPLICATION OF ADDITIONAL COATINGS: If Resuflo PT 250 Topcoat is being coated with a Sherwin-Williams epoxy build coat or topcoated with a Sherwin-Williams urethane except Resutile HPS 100 at floor temperatures of 65°F-90°F (18°C-32°C), it does not need to be sanded if applied within 24 hours. NOTE: This is a Sherwin-Williams solution only, DO NOT try this with competitive epoxies.

SANDING REQUIRED: Resuflo PT 250 Topcoat must be thoroughly sanded if applying Resutile HPS 100 (see chart below):

APPROXIMATE SAND TIME

65°F (18.3°C)	70°F (21.1°C)	75°F (23.9°C)	80°F (26.7°C)	90°F (32.2°C)
24 min	20 min	16 min	12 min	8 min

Resuflo PT 250 Topcoat must also be sanded if applying other Sherwin-Williams urethanes after 24 hours. The use of more aggressive paper will introduce deep grooves that will not be covered by a single, thin coat of urethane; swirl marks will be particularly evident if the topcoat is glossy. We recommend thorough sanding with a swing-type buff er so that multiple scratch marks cause an obvious gloss loss on all areas (depressions will remain shiny), and the floor is uniformly dulled. The ability to see individual scratch marks is an indication that sanding is not adequate.

APPLICATION EQUIPMENT

Brush/Roller

Use 1/4” phenolic core rollers and professional quality, medium stiff natural bristle brushes.

Trowel

Use steel finishing towel or epoxy mortar power trowel.

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 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.

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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

swflooding@sherwin.com