RESUFLOR™ SCREED DECO QUARTZ II

The following information is to be used as a guideline for the installation of the Resuflor Screed Deco Quartz II system. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

APPLICATION INFORMATION - SURFACE PREP PROFILE CSP 4-6

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE	PACKAGING
<50 g/L	Primer	MPE	2:1	180-220 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L	Mortar	MPE PT 250 Aggregate	1.5 gals. resin 3-37.2 lb. bags aggregate	56-70 sq. ft./typical mortar mix	3, 15 or 165 gals. 37.2 lb. bag
<50 g/L	Grout Coat	PT Topcoat	2:1	100 sq. ft./gal.	3 or 15 gals.
0	Broadcast	5900F Colored Quartz	N/A	0.5 lbs./sq. ft.	50 lbs.
<50 g/L	Grout Coat	UVE	2:1	100 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L	Seal Coat	HTS 100	Pre-measured kit	535 sq. ft./gal.	1.09 or 5.5 gals.

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.

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 Resuflor Screed Deco Quartz II. 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 the 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

RESUFLOR PT 250 MORTAR IS AVAILABLE IN 2 KIT SIZES IN NEUTRAL:

900 square feet @ 1/4" kit includes: 30 gallons of Resuflor MPE and 48 - 37.2 lb. bags of aggregate

- Use 6 gallons of MPE as primer
- Use 24 gallons of MPE and 48 - 37.2 lb. bags of aggregate for overlay

11,700 square feet @ 1/4" kit includes: 374 gallons of Resuflor MPE and 624 – 37.2 lb. bags of PT 250 Aggregate

- 63 gallons of MPE are used as the primer
- 312 gallons of MPE and 624 – 37.2 lb. bags of aggregate are used for the overlay

Other aggregate packaging may be available. Contact your Sherwin-Williams representative for details.

Cove: A seamless, smooth transition can be created between the flooring and wall. Call technical support for assistance or see bulletin on cove installation.

LIMITATIONS

Contamination (Fisheyes): Product may fisheye if oil, silicones, mold release agents or other contaminants are present.

PRIMER – RESUFLOR MPE

Resuflor PT 250 is applied over Resuflor MPE primer that is still wet or sticky — within 4 hours. It is critical that all concrete is covered to ensure proper adhesion of the overlay.

NOTE: The kits come with enough Resuflor MPE to prime at 180-220 square feet/gallon for 1/4" PT 250 applications. If Resuflor PT 250 is being put down at 3/16" and/or the floor is extremely porous or rough, additional primer will be needed.

A thin coat of primer will wet out concrete, help seal off concrete pores and minimize outgassing bubbles. Apply a tight coat of primer with a clean, flexible squeegee. There should be no mil build over the high spots of the concrete.

COVERAGE RATE: Much of this will soak into porous concrete. One gallon of Resuflor MPE will cover:

220 square feet at 7 mils

200 square feet at 8 mils

180 square feet at 9 mils

PREMIX PART A using a Jiffy® mixer blade and slow-speed drill. This is required for both 3-gallon and full-filled 5-gallon units. For full-filled 5-gallon pails, pour out 2 gallons into a measuring container. Then, pour the measured Part A into a mixing pail.

ADD RESUFLOR MPE PART B TO PART A (3 GALLONS TOTAL MIX). For full-filled 5-gallon pails, pour out 1 gallon Part B into a measuring container that is separate from the one used with the Part A. Then, add the measured Part B to the Part A already in the mixing pail. **POT LIFE:** Mix only enough material that 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. For smaller quantities, use 2 parts Part A to 1 part Part B by volume.

APPROXIMATE WORK TIME

65°F	70°F	75°F	80°F	90°F
40 mins.	30 mins.	25 mins.	20 mins.	15 mins.

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

IMMEDIATELY POUR ALL OF THE MIXED MATERIAL onto the floor in a single bead.

PUSH THE SQUEEGEE at an even speed and down pressure to apply the desired thickness. A notched squeegee can be used to increase the thickness applied. **NOTE:** The use of spiked shoes will allow freedom of movement on the wet floor. **CAUTION**: The surface will be slippery.

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:** Resuflor 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 uniformed appearance. Backrolling is required to remove the puddles and squeegee lap marks in order to obtain uniform texture and a consistent mil thickness.

MORTAR – RESUFLOR PT 250

Resuflor PT 250 is applied over Resuflor MPE primer that is still wet or sticky — within 4 hours. It is critical that all concrete is covered to ensure proper adhesion of the overlay.

COVERAGE RATE: A 3-bag mix of Resuflor PT 250 will nominally cover (finished floor):

56 square feet at 1/4"

70 square feet at 3/16"

PREMIX RESUFLOR MPE PART A using a Jiffy mixer blade and slow-speed drill. For full-filled 5-gallon units, pour out 1 gallon into a measuring container. Then, pour the measured Part A into a mixing pail.

POUR THREE BAGS OF PART C into the mortar mixer. Begin mixing.

ADD RESUFLOR MPE PART B (0.50 gallon) TO RESUFLOR MPE PART A (1.00 gallon).

POT LIFE: Mix only enough material that can be screeded and troweled in a 15-minute period.

MIX FOR 1 MINUTE or until thoroughly mixed using the Jiffy mixer blade and slow-speed drill.

POUR THE MIXED PARTS A AND B into the mortar mixer. Mix until uniform (approximately one minute). The resin needs to only wet out the sand.

POUR THE MIXED MATERIAL into the screed box.

To achieve a 1/4" finished floor, set the screed box at 5/16".

To achieve a 3/16" finished floor, set the screed box at 1/4".

NOTE: If the material is too thick, it will be more difficult to level.

SCREED material over desired area. **NOTE:** The use of spiked shoes will allow freedom of movement on the unfinished overlay. **CAUTION:** The surface will be slippery.

USE HAND TROWELS for edges and touch-up.

POWER TROWEL MATERIAL to compact and achieve finished texture with an epoxy power trowel (<50 RPM) as soon as possible.

ALLOW RESURFACER TO CURE 6-8 hours at 75°F before sealing. Allow more time at low temperatures.

USE OF A TERRAZZO GRINDER OR SURFACE GRINDER to remove high spots and ensure a continuous surface is highly recommended. Vacuum up the loose material.

GROUT/BROADCAST COAT – RESUFLOR PT TOPCOAT

Resuflor PT 250 must be sealed with one coat of Resuflor PT Topcoat.

COVERAGE RATE: One gallon of Resuflor PT Topcoat will cover 100 square feet per mixed gallon.

PREMIX RESUFLOR PT TOPCOAT PART A using a Jiffy mixer blade and slow-speed drill.

ADD RESUFLOR MPE/RESUFLOR PT TOPCOAT PART B TO RESUFLOR PT 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. **POT LIFE:** Mix only enough material that can be applied within 20 minutes.

POUR THE MIXTURE IN A BEAD over the cured Resuflor PT 250 mortar or epoxy. **WITH A FLAT SQUEEGEE, SPREAD THE RESUFLOR PT TOPCOAT. BACKROLL WITH A 3/8"**

NAP ROLLER for a uniform finish. **NOTE:** The use of spiked shoes will allow freedom of movement on the unfinished overlay. **CAUTION:** The surface will be slippery.

BROADCAST – DECORATIVE QUARTZ

IMMEDIATELY BROADCAST TO EXCESS WITH DECORATIVE QUARTZ into the uncured Resuflor PT Topcoat resin on the floor. Do not dump or pile the material. Gently scatter it onto the floor by hand tossing so as to cover the wet resin completely.

NOTE: It is important that epoxy is not visible (no wet or shiny areas) after quartz settles, because any visible epoxy will yellow. A coverage rate of 0.5 pounds per square foot of quartz is recommended.

ALLOW SYSTEM TO CURE 8-10 hours at 75°F.

THOROUGHLY SWEEP AND VACUUM to remove loose colored flake from surface. **NOTE:** DO NOT save and reuse swept and vacuumed colored flake unless you have taken extra precautions.

GROUT COAT – RESUFLOR UVE

COVERAGE RATE: A gallon of Resuflor UVE will cover 100 square feet per mixed gallon.

PREMIX PART A using a Jiffy mixer blade and slow-speed drill. Pour out 2 gallons into a measuring container. Then, pour the measured Part A into a mixing pail.

ADD RESUFLOR UVE PART B TO PART A (3 GALLONS). Pour out 1 gallon Part B into a measuring container that is separate from the one used with the Part A. Then, add the measured Part B to the Part A already in the mixing pail. **POT LIFE:** Mix only enough material that 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. For smaller quantities, use 2 parts Part A to 1 part Part B by volume.

APPROXIMATE WORK TIME:

65°F	70°F	73°F	80°F	90°F
50 mins.	40 mins.	35 mins.	30 mins.	25 mins.

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

IMMEDIATELY POUR ALL OF THE MIXED MATERIAL onto the floor in a single bead.

PUSH THE FLAT SQUEEGEE at an even speed with sufficient down pressure to apply the thinnest coat. **NOTE:** The use of spiked shoes will allow freedom of movement on the wet floor.

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 and push at an even speed with slight down pressure. Resuflor UVE coverage should average 100 square feet per gallon.

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. **NOTE:** Get off the Resuflor UVE as soon as possible.

Resuflor UVE must be topcoated with Resutile™ HTS 100 at floor temperatures of 65°F-90°F within 24 hours.

SEAL COAT – RESUTILE HTS 100

PREMIX PART A FOR 3 MINUTES USING A JIFFY MIXER BLADE with slow-speed drill. **POT LIFE:** Mix only enough material that can be used in a two-hour period. **NOTE:** Once opened, this material cannot be resealed for later use.

POUR PART C INTO PART A while mixing.

CONTINUE TO MIX AND ADD PART B.

MIX FOR 3 MINUTES using a Jiffy mixer blade and slow-speed drill. Pour into application tray.

APPLY RESUTILE HTS 100 at the rate of 500 square feet/gallon 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-foot 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.

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 and 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 all SDSes 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 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.

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** 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.

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