

RESUFLO[™] DECO QUARTZ TQ

The following information is to be used as a guideline for the installation of the Resuflo Deco Quartz TQ 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	Resuflo MPE	2:1	180-220 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L 0 g/L	Troweled Quartz Mortar	Resuflo MPE + Trowel Grade Quartz	2:1	56 sq. ft./1.5 gal. 70 lbs.	3, 15 or 165 gals. 50 lbs.
<50 g/L	1st Grout Coat	Resuflo UVE	2:1	160 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L	2nd Grout Coat	Resuflo UVE	2:1	200 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L	Topcoat	Resutile [™] HTS 100	Pre-Measured Kit	535 sq. ft./gal.	1.09 or 5.5 gals.

*See mortar mixing instructions.

ALTERNATE SYSTEM #1

<50 g/L	Topcoat	Resuflo UVE	2:1	200-267 sq. ft./gal.	3, 15 or 165 gals.
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ALTERNATE SYSTEM #2

<50 g/L	Topcoat	Accelera [™] 4850	2:1	200-267 sq. ft./gal.	3 or 15 gals.
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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 Resuflo Deco Quartz TQ. 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 of CSP 4-6. Refer to Form G-1. Consult the Sherwin-Williams Technical Service Department if oil or grease is present.

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

STANDARD QUARTZ BLENDS/SOLIDS – 50 POUND BAG

Blend ratio for the Hybrid Troweled Quartz is 5 parts Q-Grade (trowel), 1.5 parts F-Grade (broadcast). Custom blends are also available.

OPTIONS

Traction: To improve traction in slip hazard areas, consult your representative about anti-slip aggregate options.

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.

APPLICATION – PRIMER – RESUFLO MPE

The troweled quartz mortar is applied over Resuflo MPE primer applied at 180-220 square feet at 7-9 mils per gallon and must be applied while the Resuflo MPE is still wet or sticky – within 4 hours. If you prefer to not work in the wet primer, silica sand can be lightly broadcast into the wet primer and allowed to set up before overlaying.

COVERAGE RATE: One gallon of Resuflo MPE will cover:

180 square feet at 9 mils wet/dry film

200 square feet at 8 mils wet/dry film

220 square feet at 7 mils wet/dry film

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 RESUFLO MPE PART B TO PART A (3 GALLONS). 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:** 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 uniformed appearance. Backrolling is required to remove the puddles and squeegee lap marks in order to obtain uniform texture and a consistent mil thickness.

APPLICATION – MORTAR – TROWELED GRADE QUARTZ

COVERAGE RATE will depend upon thickness. One mix of Resuflo Deco Quartz TQ will nominally cover (finished floor): 13 square feet at 3/16".

POUR 6-1/2 QUARTS OF RESUFLO HYBRID PRE-BLENDED QUARTZ into the mortar mixer. Begin mixing.

ADD RESUFLO MPE PART B (1 PINT) TO RESUFLO MPE PART A (1 QUART). **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 & B into the mortar mixer. Mix until uniform (approximately one minute). The resin needs to only wet out the quartz.

POUR THE MIXED MATERIAL into the screed box. If the material is too thick or thin, it will be more difficult to level.

SCREED material over desired area. The use of spiked shoes will allow movement on the unfinished overlay.

USE HAND TROWELS to compact and smooth material.

NOTE: This flooring system cannot be ground to remove defects, because the color of the quartz is changed in a manner that is not consistent. Extreme care must be taken to ensure that the floor is troweled smooth with no trowel marks or open surface areas evident. It is extremely difficult to see troweling defects with normal overhead lighting. Therefore, it is recommended that all overhead lighting be turned off and work lights be used at the floor level to light the area during application.

ALLOW MATERIAL TO CURE 6-8 HOURS at 75°F before applying seal coat. Allow more time at low temperatures.

APPLICATION – GROUT COATS – RESUFLO UVE

The troweled surface of Resuflo Quartz TQ can be sealed with a standard epoxy for applications that do not require UV light stability; however, for best results over the life of the troweled floor, it should be sealed with an ultraviolet-resistant epoxy.

The grout coating should be applied in multiple thin coats. The intent is to fill in any voids without leaving excessive millage on the surface.

COVERAGE RATE: A gallon of Resuflo UVE will cover: 160 square feet at 10 mils wet/dry film.

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 RESUFLO UVE PART B TO PART A (3 GALLONS TOTAL MIX). 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
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. **CAUTION:** The surface will be slippery.

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

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

COVERAGE RATE: A gallon of Resuflo UVE will cover: 200 square feet at 8 mils wet/dry film.

REPEAT STEPS used for mixing and spreading of the first seal coat.

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

APPLICATION – TOPCOAT – 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 535 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 spike 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 7-14 days to develop.

APPLICATION EQUIPMENT

BRUSH/ROLLER

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

TROWEL

Use steel finishing trowel or epoxy mortar power trowel such as those manufactured by Superior.

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 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

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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](https://www.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.

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United States & Canada

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