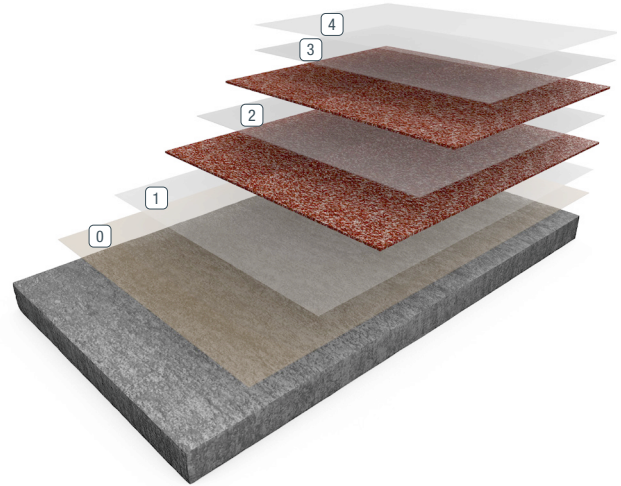


RESUFLOOR™ DECO QUARTZ DB23

Sherwin-Williams Resufloor Deco Quartz DB23 is a nominal 1/8" system that uses decorative colored quartz aggregates, high-solids epoxy resins, and chemical-resistant grout and topcoats to form a protective surface that is aesthetically pleasing, durable and slip, wear and stain resistant.



BENEFITS

- Aesthetically pleasing appearance
- Limitless color options
- Durable, wear and slip resistant
- Chemical and stain resistant
- Fiberglass scrim option for maximum tensile strength and crack isolation
- Optional waterproofing and/or membrane
- Can be applied vertically (integrated cove base)
- Contributes to LEED v4.1 credits

USES

- Commercial kitchens (areas where temperature will not exceed 160°F in service)
- Animal care
- Clean rooms
- Pharmaceuticals
- Locker and restrooms
- Packaging and storage areas

- ① **Optional Primer**
- ② **First Broadcast**
- ③ **Second Broadcast**
- ④ **Grout Coat**
- ⑤ **Topcoat**

TYPICAL PHYSICAL PROPERTIES

Color	Pre-blended standard colors Custom color blends available
Shore D Hardness ASTM D2240	80-85 @ 0 sec 75-80 @ 15 sec
Compressive Strength ASTM D695	13,500 psi
Tensile Strength ASTM D2370	8,000 psi
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	18 mg/loss Result based on independent lab testing of Resutile HTS™
Adhesion to Concrete ASTM D4541	450 psi (concrete failed)
Adhesion to Concrete ASTM D7234	732 psi (concrete failed)
Flammability ASTM D635	182 mm/min

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 Resuflo Deco Quartz DB23. 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 4-6. 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 50-90°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 — SURFACE PREP PROFILE CSP 4-6

VOC MIXED	APPLICATION STEP	MATERIAL	MIXED RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	Optional Primer	MPE	2:1	133-160 sq. ft. / gal	3, 15, 165 or 750 gals
<50 g/L 0	1st Broadcast	MPE 5900F	2:1 To excess	133-160 sq. ft. / gal .4 lbs. / sq. ft.	3, 15, 165 or 750 gals 50 lbs.
<50 g/L 0	2nd Broadcast	MPE 5900F	2:1 To excess	65-70 sq. ft. / gal .4 lbs. / sq. ft.	3, 15, 165 or 750 gals 50 lbs.
<100 g/L	Grout Coat	UVE	2:1	107 sq. ft. / gal	3 or 15 gals
<100 g/L	Topcoat	HTS	2:1	535 sq. ft. / gal	Pre-measured kit

ALTERNATE SYSTEM #1

VOC MIXED	APPLICATION STEP	MATERIAL	MIXED RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	Optional Primer	MPE	2:1	133-160 sq. ft. / gal	3, 15, 165 or 750 gals
<50 g/L 0	1st Broadcast	MPE 5900F	2:1 To excess	133-160 sq. ft. / gal .4 lbs. / sq. ft.	3, 15, 165 or 750 gals 50 lbs.
<50 g/L 0	2nd Broadcast	MPE 5900F	2:1 To excess	65-70 sq. ft. / gal .4 lbs. / sq. ft.	3, 15, 165 or 750 gals 50 lbs.
<100 g/L	Grout Coat	UVE	2:1	107 sq. ft. / gal	3 or 15 gals
<100 g/L	Topcoat	UVE	2:1	200 sq. ft. / gal	3 or 15 gals

ALTERNATE SYSTEM #2

VOC MIXED	APPLICATION STEP	MATERIAL	MIXED RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	Optional Primer	MPE	2:1	133-160 sq. ft. / gal	3, 15, 165 or 750 gals
<50 g/L 0	1st Broadcast	MPE 5900F	2:1 To excess	133-160 sq. ft. / gal .4 lbs. / sq. ft.	3, 15, 165 or 750 gals 50 lbs.
<50 g/L 0	2nd Broadcast	MPE 5900F	2:1 To excess	65-70 sq. ft. / gal .4 lbs. / sq. ft.	3, 15, 165 or 750 gals 50 lbs.
<100 g/L	Grout Coat	4850	2:1	125-200 sq. ft. / gal	3 or 15 gals
<100 g/L	Topcoat	4850	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.

OPTIONAL PRIMER

APPLICATION - OPTIONAL PRIMER - RESUFLO MPE

COVERAGE RATE: One gallon of Resuflo MPE will cover:

- 160 sq. ft. at 10 mils wet/dry film
- 145 sq. ft. at 11 mils wet/dry film
- 133 sq. ft. at 12 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 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. **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. 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 min	30 min	25 min	20 min	15 min

MIX FOR 3 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 using downward 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 and push at an even speed with slight down pressure.

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.

1ST BROADCAST COAT

APPLICATION - 1ST BROADCAST COAT - RESUFLO MPE

COVERAGE RATE: One gallon of RESUFLO MPE will cover:

- 160 sq. ft. at 10 mils wet/dry film
- 145 sq. ft. at 11 mils wet/dry film
- 133 sq. ft. at 12 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 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. **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. 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 min	30 min	25 min	20 min	15 min

MIX FOR 3 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 and push at an even speed with slight down pressure.

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 - 1ST BROADCAST COAT - QUARTZ AGGREGATE IMMEDIATELY BROADCAST TO EXCESS WITH DECORATIVE QUARTZ into the uncured Resuflo MPE 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 0.4 to 0.5 pounds per sq. ft. of quartz is recommended.

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

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

2ND BROADCAST COAT

APPLICATION - 2ND BROADCAST COAT - RESUFLO MPE

COVERAGE RATE: One gallon of Resuflo MPE will cover 65-70 sq. ft./gal at 22-24 mils wet/dry film.

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

APPLICATION - DECORATIVE QUARTZ

REPEAT STEPS used for application of the broadcast quartz.

GROUT COAT

APPLICATION - GROUT COAT - RESUFLO UVE

COVERAGE RATE: A gallon of Resuflo UVE will cover 107 sq. ft. at 15 mils wet/dry film 100 sq. ft. at 16 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.

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. 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 min	40 min	35 min	30 min	25 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.)

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.

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.

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

TOPCOAT

APPLICATION - TOPCOAT- RESUTILE HTS 100

NOTE: The topcoat of Resutile HTS 100 must be applied after the Resuflo UVE has set up enough to walk on and within 24 hours.

PREMIX PART A FOR 3 MINUTES USING A JIFFY® MIXER BLADE with slow speed drill. **POTLIFE:** Mix only enough material which 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 sq.ft./gal 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 8-10-ft.-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 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 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 (50-90°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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