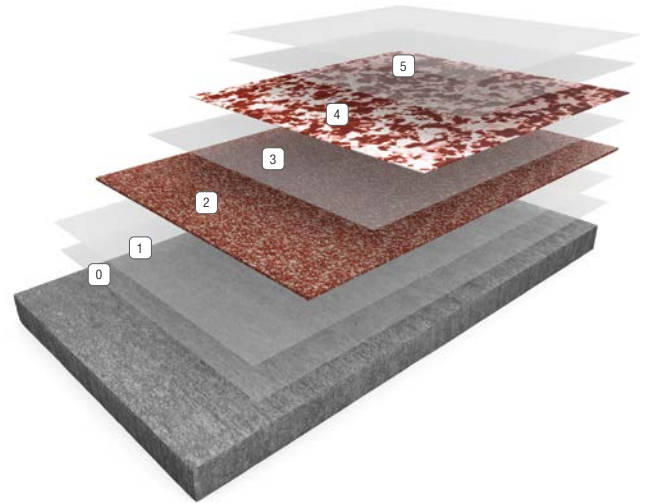


RESUFLOTM DECO FLAKE DQF

Sherwin-Williams Resufloor Deco Flake DQF System is a high-strength floor covering with a unique mosaic appearance, created with the use of two different types of decorative broadcast media and high-performance epoxy coatings. The first broadcast is an application of decorative quartz, while the second broadcast utilizes decorative flake. The flake and quartz aggregates are available in a variety of standard and custom colors/blends to complement virtually any facility décor.



BENEFITS

- Aesthetically pleasing appearance
- Limitless color options
- Seamless and sanitary
- Chemical and stain resistant
- High-gloss finish
- Contributes to LEED® v4 credits

USES

- Nursing homes and healthcare facilities
- Clean rooms and pharmaceutical facilities
- Retail and office buildings
- Locker rooms and restrooms
- Schools and universities
- Stadiums and hospitality venues

- ① **Primer**
- ② **1st Basecoat**
- ③ **1st Broadcast - Colored Quartz**
- ④ **2nd Basecoat**
- ⑤ **2nd Broadcast - Colored Flake**
- ⑥ **Grout and Topcoat**

TYPICAL PHYSICAL PROPERTIES

Color	Standard and custom color blends available
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	80-90
Compressive Strength ASTM D695	13,500 psi
Adhesion ASTM D4541	450 psi concrete failure
Adhesion ASTM D7234	732 psi concrete failure
Shore D Hardness ASTM D2240	80-85 @ 0 sec 75-80 @ 15 sec
Tensile Strength ASTM D2370	8,000 psi
Percent Elongation (topcoat resin) ASTM D2370	5%
Flammability	Self-extinguishing over concrete
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 Resufloor Deco Flake DQF. 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 50-90°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.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 1-3

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE	PACKAGING
<50 g/L	Optional Primer	MPE	2:1	321-535 sq ft / gal	3, 15, 165 or 750 gals
<50 g/L	1st Basecoat	MPE	2:1	133-160 sq ft / gal	3, 15, 165 or 750 gals
0 g/L	Broadcast	5900F Colored Quartz	Broadcast	0.4-0.5 lbs / sq ft	50 lbs
<50 g/L	2nd Basecoat	MPE	2:1	107 sq ft / gal	3, 15, 165 or 750 gals
0 g/L	Broadcast	6750/6755 Flake	Broadcast	0.2 lbs / sq ft	25 or 50 lbs
<50 g/L	Grout Coat	UVE	2:1	107 sq ft / gal	15 gals
<50 g/L	Topcoat	UVE	2:1	107 sq ft / gal	15 gals

ALTERNATE SYSTEM #1

<50 g/L	1st Basecoat	MPE	2:1	133-160 sq ft / gal	3, 15, 165 or 750 gals
0 g/L	Broadcast	5900F Colored Quartz	Broadcast	0.4-0.5 lbs / sq ft	50 lbs
<50 g/L	2nd Basecoat	4850	2:1	60-70 sq ft / gal	3 gals
0 g/L	2nd Broadcast	6750/6755 Flake	Broadcast	0.2 lbs / sq ft	25 or 50 lbs
<50 g/L	Grout Coat	4850	2:1	80-100 sq ft / gal	3 gals
<50 g/L	Topcoat	4850	2:1	105-160 sq ft / gal	3 gals

GENERAL PRODUCT INFORMATION

OPTIONS:

Colors in Resuflo MPE and Resuflo UVE: Use colorants at a rate of one unit per 3-gallon mix. Standard colorants — White, Yellow, Light Gray and Rotunda Red will not impart total hide. Use these colorants at a rate of two units per 3-gallon mix. Similar colorants also may not hide as well. Refer to Color Selection Guide or consult Sherwin-Williams Technical Support. **NOTE:** Even though the background coat is an ultraviolet-resistant epoxy, Light Gray and White may show yellowing over time. **NOTE:** Very dark colors like Battleship Gray and Steel Gray are not recommended as they create a background that is too dark.

Cove: A seamless, smooth transition can be created between the flooring and wall. Call technical support for assistance.

LIMITATIONS:

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

OPTIONAL PRIMER – RESUFLO MPE

A thin coat of primer will wet out the concrete, help seal off concrete pores and minimize outgassing bubbles. Apply a tight coat of primer with a clean, flexible squeegee. Backrolling is not recommended. There should be no mil build over the high spots of the concrete.

For the optional primer application, follow instructions for mixing and application of the Resuflo MPE base coat, skipping the backrolling step.

COVERAGE RATE: Much of the primer coat will soak into porous concrete. One gallon of Resuflo MPE will cover:

535 square feet at 3 mils wet/dry film

400 square feet at 4 mils wet/dry film

321 square feet at 5 mils wet/dry film

1ST BASE COAT – RESUFLO MPE

A thin coat of primer will wet out the concrete substrate, help seal off concrete pores and minimize outgassing bubbles. Apply a tight coat of primer with a clean, flexible squeegee. Backrolling is not recommended. There should be no mil build over the high spots of the concrete. **NOTE:** If faster cure times are required, use Resuflo 3746 FC.

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

160 square feet at 10 mils wet/dry film

145 square feet at 11 mils wet/dry film

133 square feet 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 containers). For full-filled 5-gallon pails, pour out 2 gallons into a measuring container.

Then, pour the measured Part A into a mixing pail.

COLORS: Premix colorants to ensure uniform color. Colorant is added to the Part A and mixed using a Jiffy® mixer blade and slow speed drill. **NOTE:** When using colorant in the bulk units, add the colorant to the Part A that has been measured into the “mixing pail.” Pre-pigment the primer the same color that the seed coat of Resuflo MPE will be to help with hide.

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.

POTLIFE: 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 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.)

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.

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).

TO REDUCE OUTGASSING BUBBLES, it is best to wait until the primer has set up enough to walk on before applying the seed coat of Resuflo MPE. The primer must be coated within 24 hours at floor temperatures 65-90°F.

1ST BROADCAST – DECORATIVE QUARTZ

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 square feet 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 or flake unless you have taken extra precautions.

2ND BASE COAT – RESUFLO MPE

One gallon of Resuflo MPE will cover:

107 square feet at 15 mils wet/dry film

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

2ND BROADCAST – DECORATIVE FLAKE

IMMEDIATELY BROADCAST TO EXCESS WITH DECORATIVE FLAKE 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 flake settles, because any visible epoxy will yellow. A coverage rate of 0.2 pounds per square feet of flake is recommended.

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

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

GROUT COAT – RESUFLO UVE

COVERAGE RATE: A gallon of Resuflo UVE will cover:

107 square feet at 15 mils wet/dry film

100 square feet 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 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 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.)

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

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

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 Resuflo UVE as soon as possible.

The topcoat of Resuflo UVE must be applied at floor temperatures of 65-90°F (within 24 hours).

TOPCOAT – RESUFLO UVE

COVERAGE RATE: One gallon of Resuflo UVE will cover:

200 square feet at 8 mils wet/dry film

REPEAT STEPS used for mixing and spreading of the grout coat.

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.

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 of 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.

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