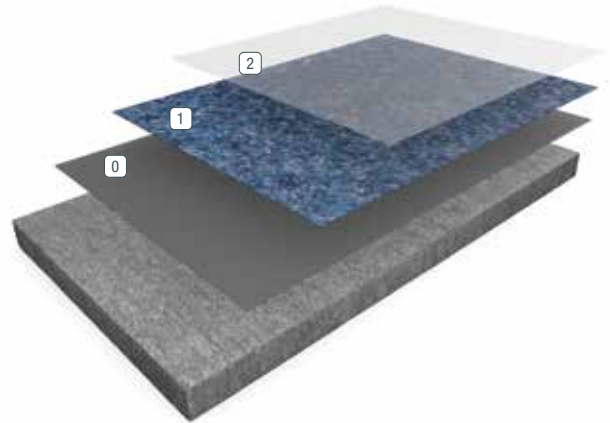


## RESUFLOOR™ DSS

**Sherwin-Williams Resufloor DSS** is a 3-layer system consisting of a prime coat, a decorative “stone slurry” and a topcoat. Compared to traditional 5- to 7-layer decorative floors, this system requires fewer installation steps. It helps minimize facility downtime and enables faster resumption of normal operations. The system consists of a prime coat of pigmented Resufloor DSP, followed by a slurry coat of Resufloor DSS, finished with a UV-light stable urethane in either a satin finish or a gloss finish with glass beads for added texture.



### BENEFITS

- Quick installation and fast turnaround
- Seamless, easy to clean and maintain
- Durable, wear- and slip-resistant
- Chemical- and stain-resistant
- Customizable color
- Natural stone appearance
- Unique look with stunning visual depth
- Minor repairs, if needed, are virtually invisible

### USES

- Hotels and lobbies
- Showrooms and retail outlets
- Classrooms, offices and corridors
- Hospitality venues and restaurants
- Healthcare facilities and labs
- Restrooms and locker rooms
- Arenas and sport complexes

- 0 Primer
- 1 Body Coat
- 2 Topcoat

### TYPICAL PHYSICAL PROPERTIES

<b>Abrasion Resistance</b> ASTM D4060 Taber Abraser CS-17 Wheel, 1,000 g load, 1,000 cycles	18 mg/loss Result based on independent lab testing of Resutile™ HTS
<b>Hardness, Shore D</b> (at 24 hours) ASTM D2240	80-85 @ 0 sec   75-80 @ 15 sec
<b>Sward Hardness</b> (1 mil film) ASTM D 2240	35-40
<b>Tensile Strength</b> ASTM D2370	8,000 psi
<b>Adhesion to Concrete</b> ASTM D4541	>1250 psi (no coating adhesion failure)
<b>Adhesion to Concrete</b> ASTM D7234	>480 psi (max psi machine can register)
<b>Flammability</b> 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 DSS. 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.

#### **Resuflo DSS is a smooth system – substrate imperfections must be corrected or they can reflect through the system.**

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 3 IF MOISTURE REMEDIATION IS REQUIRED, REFER TO CSP 4

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE	PACKAGING
<50 g/L	Primer / Base Coat	DSP	2:1	160 - 200 sq ft / gal	3 gal
<50 g/L	Decorative Slurry	DSS Resin DSS Powder Pigment	Pre-measured kit	18 - 24 sq ft / gal	3 gal 37.5 lbs
<50 g/L	Topcoat	HTS 100	Pre-measured kit	500 sq ft / gal	1.09 or 5.5 gal

### ALTERNATE SYSTEM #1

<50 g/L	Topcoat	HPS 100 with glass beads	Pre-measured kit	500 sq ft / gal	0.94 or 4.7 gal (liquids only)
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### OPTIONAL COVE

<50 g/L	Primer / Base Coat	DSP	2:1	160 - 200 sq ft / gal	3 gal
<50 g/L	Cove	DSS Cove Resin DSS Powder Pigment	Pre-measured kit	150 - 225 lin ft / kit	3 gal 37.5 lbs
<50 g/L	Topcoat	HTS 100	Pre-measured kit	500 sq ft / gal	1.09 or 5.5 gal

4" high cove: 225 lin ft / kit | 6" high cove: 150 lin ft / kit

## GENERAL PRODUCT INFORMATION

### OPTIONS:

**Colors:** Resufloor DSP must be pigmented for use with the Resufloor DSS System. Use Canada Gray colorant at a rate of one unit per 3-gallon mix of Resufloor DSP. Resufloor DSS and Resufloor DSS Cove are available in custom colors.

**Cove:** A seamless, smooth transition can be created between the flooring and wall using Resufloor DSS Cove.

### LIMITATIONS:

**Contamination (Fisheyes):** Product may not adhere if oil, silicones, mold release agents or other contaminants are present.

## PRIMER – RESUFLOOR DSP

**COVERAGE RATE:** Coverage rate will depend upon application thickness. One gallon of Resufloor DSP will cover:

200 square feet / gal at 8 mils wet / dry film

178 square feet / gal at 9 mils wet / dry film

160 square feet / gal at 10 mils wet / dry film

Pigment the Resufloor DSP to provide a homogeneous-colored base.

**PREMIX PART A FOR 3 MINUTES** using a Jiffy® mixer blade and slow speed drill. (This is required.)

**COLORS:** Premix colorant to ensure uniform color. Colorant is added to the Part A and mixed using a Jiffy® mixer blade and slow speed drill.

**MIX RESUFLOOR DSP PART A AND COLORANT FOR 3 MINUTES** using a Jiffy® mixer (HS-1 or PS-1 Blade) and slow speed drill. (Premix is required.)

**ADD RESUFLOOR DSP PART B TO PART A (3 GALLONS TOTAL MIX). 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.

### 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 (HS-1 or PS-1 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 quality 3/8" nap phenolic core 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.

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

**NOTE:** If outgassing, pinholes or fisheyes occur, re-prepare area and apply an additional coat of Resufloor DSP to address. Outgassing or pin holes must be remedied before proceeding with flooring installation.

Prior to application of Resufloor DSS, once primer has cured, lightly sand with 80-100 grit sandpaper to remove any protrusions. Scrub with detergent and rinse with clean water before coating OR vacuum and tack rag to remove fine dust.

## DECORATIVE SLURRY – RESUFLOOR DSS

**COVERAGE RATE:** Coverage rate will depend upon application thickness. A one-bag kit (4.5 gallons mixed material) will nominally cover (finished floor):

120 square feet / kit @ 60 mils

105 square feet / kit @ 70 mils

90 square feet / kit @ 80 mils

**PREMIX THE 2 GALLONS OF RESUFLOOR DSS PART A FOR 2 MINUTES** using a Jiffy® mixer (PS-1 Blade) and slow speed drill.

**NOTE:** Do not use a larger blade, which can entrap air into the blended material, causing micro-bubbles to form on the surface of the cured system.

**ADD THE 1 GALLON RESUFLOOR DSS / RESUFLOOR DSS COVE B TO PART A (3 GALLONS TOTAL MIX).**

**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.

### 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 (PS-1 Blade) and slow speed drill. (Failure to do so could result in lower/diminished coating properties.)

**WHILE CONTINUING TO MIX, SLOWLY ADD RESUFLOOR DSS / RESUFLOOR DSS COVE PART C.** Mix until all 37.5 pounds of Part C filler have been emptied into the container.

**CONTINUE MIXING FOR AN ADDITIONAL 3 MINUTES** after all of the Part C filler has been added. Pail will contain approximately 4.5 gallons of mixed material. **NOTE:** Move mixing blade throughout the container to ensure complete blending of filler. Do not whip air into the mixture.

**IMMEDIATELY POUR ALL OF THE MIXED MATERIAL** onto the floor in a single bead. Scrape sides of container.

**USING AN 18-INCH WIDE, 3/8-INCH V-NOTCHED STEEL**

**RAKE HEAD** (Kraft® Double-Notch Rake, part number GG595, is recommended) or a 1/2-inch V-notched hand trowel held at a 33-45 degree angle, apply material over desired area. Push the material out to edges and corners. Draw the material down the floor using smooth strokes.

**USE HAND TROWELS** to finish along edges and drains.

**NOTE:** Allow product to self-level for at least 5 minutes before porcupine rolling. Use a minimum 7/16" plastic porcupine roller to smooth and level the Resuflo DSS. Material must be rolled (back and forth over a given area) with a porcupine roller in order to release entrained air. **NOTE:** The use of spiked shoes will allow freedom of movement on the wet floor. **CAUTION:** The surface will be slippery. **NOTE:** Avoid sliding in the wet Resuflo DSS surface while wearing spiked shoes, as this will create a void. To repair wet surface imperfections, gently slide a marginal trowel across the marks caused by the spikes and then backroll with the porcupine roller.

**LAY ABUTTING EDGES WITHIN 10 MINUTES** to ensure a clean edge. A "wet edge" installation is imperative during large placements to avoid lines and ridges in the finished floor.

**ALLOW RESUFLO DSS TO HARD CURE.**

**APPROXIMATE CURE TIME:**

65°F	70°F	75°F	80°F	90°F
24 hrs	20 hrs	16 hrs	12 hrs	8 hrs

**TOPCOAT – RESUTILE™ HTS 100**

Resuflo DSS / Resuflo DSS Cove should be topcoated with a urethane topcoat.

**SANDING REQUIRED:** Resuflo DSS/Resuflo DSS Cove must be thoroughly sanded before applying urethane topcoat (see chart below).

**APPROXIMATE WORK TIME:**

65°F	70°F	75°F	80°F	90°F
24 hrs	20 hrs	16 hrs	12 hrs	8 hrs

Use 80 grit sandpaper (exception — when applying Resutle HPS 100, use 100 grit sandpaper). 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 buffer 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. Scrub with detergent and rinse with clean water before coating and tack rag to remove fine dust.

**PREMIX PART A FOR 3 MINUTES USING A JIFFY® MIXER BLADE** with slow speed drill. **POTLIFE:** Mix only enough that can be used in a 2-hour period. **NOTE:** Once opened, this material cannot be resealed for later use.

**POUR PART C INTO PART A** while mixing.

**DESIGNED TO PERFORM**

**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 per 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- 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 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, 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.

**OPTIONAL COVE – RESUFLO DSS COVE**

**NOTE:** Cove installation is done after the decorative slurry installation and before the topcoat. The clear topcoat will be applied to both the floor and the cove at the same time.

**NOTE:** Substrate should be dry, sound and clean. Extremely porous surfaces (e.g., cinder block) will require a primer. Painted / smooth surfaces should be scuffed prior to application. A coving strip SHOULD NOT be used, as it will show through. Instead, use tape to create the top edge of the cove. The tape can be removed after the cove has been installed.

**TOOLS:** Use a coving trowel that is 2 inches taller than the cove height being installed.

**COVING TROWEL PREPARATION:** Using duct tape, wrap the top edge of the coving trowel with a minimum of 8 layers of duct tape. This will produce a lip to hold the coving trowel off the wall roughly 40-80 mils. Hold trowel against wall and measure how far out the radius ends from the wall. Using this measurement, drop a tape line along the floor, parallel to the wall. This will act as a stopping point for the bottom of the cove.

Tape from the top (wall) and bottom (floor) will be removed after the cove is installed. This will leave a feather-edged transition on the floor and a 40-80 mils protrusion on top. The top edge can be sanded to remove any imperfections and then caulked to leave a nicely finished edge. The bottom edge can be lightly sanded to create a nearly invisible transition from cove to floor.

**COVERAGE RATE:** The cove mix below typically covers 225 lineal feet at a height of 4 inches. The coverage of the Resuflo<sup>™</sup> DSS Cove could vary depending on its thickness (cove shape).

## COVE SLURRY – RESUFLO<sup>™</sup> DSS COVE

**PREMIX THE 2 GALLONS RESUFLO<sup>™</sup> DSS COVE PART A FOR 2 MINUTES** using a Jiffy<sup>®</sup> mixer (PS-1 Blade) and slow speed drill.

**NOTE:** Do not use a larger blade, which can entrap air into the blended material, causing micro-bubbles to form on the surface of the cured system.

**ADD THE 1 GALLON OF RESUFLO<sup>™</sup> DSS / RESUFLO<sup>™</sup> DSS COVE B TO PART A (3 GALLONS TOTAL MIX).**

**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.

### 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<sup>®</sup> mixer (PS-1 Blade) and slow speed drill. (Failure to do so could result in lower/diminished coating properties.)

**WHILE CONTINUING TO MIX – USING THE BUCKET MORTAR MIXER, SLOWLY ADD RESUFLO<sup>™</sup> DSS / RESUFLO<sup>™</sup> DSS COVE C.** Mix until all 37.5 pounds of Part C filler have been emptied into the container.

**CONTINUE MIXING FOR AN ADDITIONAL 3 MINUTES** after all of the Part C filler has been added. Pail will contain approximately 4.5 gallons of mixed material. **NOTE:** Move mixing blade throughout the container to ensure complete blending of filler. Do not whip air into the mixture.

**IMMEDIATELY START TO HANG THE BLENDED RESUFLO<sup>™</sup> DSS COVE MATERIAL,** using a hand trowel or margin trowel to rough out the cove form. Pot life on the mixed cove materials is 30 minutes, and in some conditions, may be up to an hour.

**USING THE PROPERLY PREPARED COVING TROWEL,** strike the pre-hung coving material. **NOTE:** The Resuflo<sup>™</sup> DSS Cove material is applied using a slightly different technique than when installing a typical “built” cove, where the installer compresses the material to create the desired shape. The Resuflo<sup>™</sup> DSS Cove should be handled more like a caulk. It is to be smoothed with the coving trowel, not compressed.

**AFTER THE FIRST STRIKE,** clean the trowel and apply solvent to the trowel. Take the solvent-lubricated trowel and smooth the cove.

**WHEN COMPLETE,** remove tape lines from the top and bottom of the cove.

**NOTE:** The cove should be topcoated at the same time as the floor.

**AFTER COVE HAS CURED HARD,** lightly sand cove by hand to remove any imperfections. A palm sander may be used. Carefully vacuum, followed by a tack rag, to ensure all residue is removed. Follow instructions for topcoat application above.

## REPAIRING MINOR RESUFLO<sup>™</sup> DSS SURFACE DAMAGE

**IDENTIFY THE DAMAGED SPOT.** Tape off the surrounding area to protect it. **REMOVE DAMAGED MATERIAL** using a router with a straight carbide-tipped bit. **VACUUM THE ROUTED AREA,** followed by a clean tack rag.

**USING RESUFLO<sup>™</sup> DSS / RESUFLO<sup>™</sup> DSS COVE PART C,** dust the perimeter of the area to be repaired.

**MIX RESUFLO<sup>™</sup> DSS PART A AND RESUFLO<sup>™</sup> DSS / RESUFLO<sup>™</sup> DSS COVE PART B** at a 2:1 ratio for 3 minutes. For every 1 ounce of blended Resuflo<sup>™</sup> DSS Part A and B liquid, add 44.3 grams of Resuflo<sup>™</sup> DSS / Resuflo<sup>™</sup> DSS Cove Part C powder. Mix for an additional 2 minutes.

**POUR THE BLENDED,** three-component Resuflo<sup>™</sup> DSS mixture into the area to be repaired.

**STRIKE THE AREA USING A 1/8” V-NOTCHED TROWEL,** held at a 10-20 degree angle, to remove excess material. Wipe the surrounding area clean, as required.

**ALLOW TO CURE OVERNIGHT** and lightly sand the next day to level the area if needed.

**APPLY TOPCOAT TO THE REPAIRED AREA** and carefully feather edges into the surrounding surface. Contact technical support for guidance.

## 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 40-90°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](http://www.sherwin-williams.com/resin-flooring) to obtain the most recent product data 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

[sherwin-williams.com/resin-flooring](http://sherwin-williams.com/resin-flooring)  
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