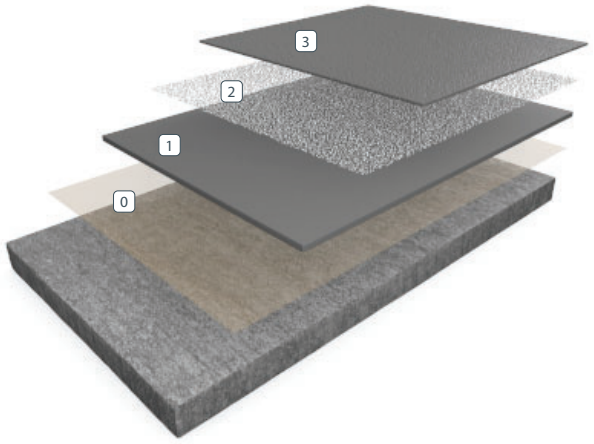
RESUFLOR™ TOPFLOOR SL23

Sherwin-Williams Resuflor Topfloor SL23 is a high build (1/16" - 1/8"), chemical resistant protective self-leveling system that utilizes high solids binder resins and selected aggregates to produce a resin-rich material that is easily applied with a v-notched trowel or squeegee.



0 Primer

1 Slurry Coat

2 Broadcast

3 Grout

BENEFITS

- Acceptable for use in USDA inspected facilities
- Seamless, easy-to-clean surface
- Durable, wear and slip resistant
- Chemical and stain resistant
- Available with an antimicrobial agent
- LEED® v4 compliant

USES

- Manufacturing areas
- Animal Care
- Clean rooms
- Pharmaceuticals
- Locker rooms and restrooms
- Packaging and storage areas

TYPICAL PHYSICAL PROPERTIES

Color	Standard Colors Computerized custom color matching available upon request
Hardness @ 24 hours, Shore D ASTM D 2240	70/65
Compressive Strength ASTM C 579	12,000 psi
Tensile Strength ASTM D 307 ASTM D 638	1,900 psi 6,000 psi
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	90-100 mgs lost
Flexural Strength ASTM C 580	4,000 psi
Adhesion ACI 503R	300 psi concrete failure Withstands 16 ft lbs
Impact Resistance MIL-D-3134, Sec.4.7.3	Withstands 16 ft lbs without cracking, delamination or chipping
Flammability ASTM D 2240 Adhesion ACI 503R	Self-Extinguishing over concrete
Resistance to Elevated Temperatures MIL-D-3134J	No slip or flow at required temperature of 158°F

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 Resuflor Topfloor SL23. 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 off gassing. The material should not be applied in direct sunlight, if possible. Protect material from freezing prior to installation.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 4-6

VOC MIXED	APPLICATION STEP	MATERIAL	MIXED RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	Primer	3579	2:1	250 sq. ft./gal	3 or 15 gals
<50 g/L 0 0	Slurry 1/16" Smooth	3561 5350 5310-7	4:1	56 sq. ft./ 1.25 gal 6 lbs. / 1.25 gal 13 lbs. / 1.25 gal	1.25- 250 gals 50 lbs. 50 lbs.
<50 g/L 0 0 0 0	Slurry 1/8" Non-Skid Broadcast	3561 5350 5310-7 5310-8	4:1 To Excess	56 sq. ft./ 1.25 gal 6 lbs. / 1.25 gal 13 lbs. / 1.25 gal 0.6 - 0.8 lbs. / sq. ft.	1.25- 250 gals 50 lbs. 50 lbs. 50 lbs.
<100 g/L	Grout Coat -1/8"	3746	2:1	100-150 sq. ft./gal	3 or 15 gals
<100 g/L	Topcoat	3746	2:1	100-150 sq. ft./gal	3 or 15 gals

For additional topcoat options, consult the Sherwin-Williams Topcoat Selection Guide or contact your Sherwin-Williams representative.

PRIMER

MIXING AND APPLICATION

1. Premix 3579A (resin) using a low-speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 2 parts 3579A (resin) to 1 part 3579B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
3. 3579 may be applied via spray, roller or brush. Apply 5-8 mils, evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.
4. Wait until primer is tacky (usually 1 hour minimum) before applying the slurry. If primer is not going to be topped within open time, broadcast silica sand into resin lightly but uniformly and allow to cure overnight.

SLURRY - 1/16" SMOOTH

MIXING AND APPLICATION

1. Premix 3561A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to whip air into the material.
2. Add 1 gallon 3561A (resin) to 1 quart 3561B (hardener). Mix with low-speed drill and Jiffy blade for three minutes until uniform. Slowly add up to 6 lbs. of 5350 Resuflor filler and up to 13 lbs. of 5310-7 Dry Silica per 1.25 gallons of mixed epoxy. Mix with low-speed drill and Jiffy blade for three minutes until uniform and no lumps remain.

NOTE: 1 gallon of unpacked 5350 is approximately 6 lbs.
1 gallon of unpacked 5310-7 is approximately 13 lbs.

3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched trowel or 1/4" red rubber squeegee.
4. Allow material to self-level 10-15 minutes, the surface should be lightly backrolled with a looped roller to help smooth. Use a spiny roller to aid in the release of air.
5. Allow to cure. (Cure times vary depending on environmental conditions.)

SLURRY - 1/8" NON-SKID

MIXING AND APPLICATION

1. Premix 3561A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to whip air into the material.
2. Add 1 gallon 3561A (resin) to 1 quart 3561B (hardener). Mix with low-speed drill and Jiffy blade for three minutes until uniform. Add 6 lbs. of 5350 Resuflor filler and 13 lbs. of 5310 Dry Silica Sand to 1.25 gallons of mixed epoxy and mix thoroughly using a low-speed drill and Jiffy blade for three minutes until uniform and no lumps remain.
3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched trowel or 1/4" red rubber squeegee.
4. Allow material to self-level 10-15 minutes, the surface should be lightly backrolled with a looped roller to help smooth. Use a spiny roller to aid in the release of air. Begin evenly seeding 5310-8 Dry Silica Sand (20-40 mesh or other approved non-skid aggregate) into the wet resin much the same as grass seed is spread. Sand may be spread by hand or mechanical blower but should be broadcast in such a way that the sand falls lightly into the resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.
5. Allow to cure, sweep off excess sand with a clean, stiff-bristled broom. Clean sand can be saved for future use. All imperfections such as high spots should be smoothed before the application of the grout coat.

NOTE: Dry Silica Sand distribution is critical to the success of the application. The floor's finished appearance depends on the manner in which the sand has been applied. In grass seed like fashion, allow the sand to fall after being thrown upward and out. DO NOT THROW DOWNWARD AT A SHARP ANGLE USING FORCE.

NOTE: Resuflor may be placed into service after the base slurry/broadcast has cured. Grout coats and topcoats can be applied based upon desired texture and finish.

GROUT COAT FOR 1/8" NON-SKID

MIXING AND APPLICATION

1. Premix 3746A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to introduce air into the material.
2. Add 2 parts 3746A (resin) to 1 part 3746B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
3. Apply 3746 using a flat trowel or flat squeegee and backroll with a 1/4" nap roller at a spread rate of 100-150 sq. ft. per gallon, evenly, with no puddles making sure of uniform coverage. Take care not to puddle materials and ensure even coverage.
4. Allow to cure for 24 hours minimum before applying seal coat.

TOPCOAT

MIXING AND APPLICATION

1. Premix 3746A (resin) using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to introduce air into the material.
2. Add 2 parts 3746A (resin) to 1 part 3746B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
3. Apply 3746 using a flat trowel or flat squeegee and backroll with a 1/4" nap roller at a spread rate of 100-150 sq. ft. per gallon, evenly, with no puddles making sure of uniform coverage. Take care not to puddle materials and ensure even coverage.
4. Allow to cure for 24 hours minimum before opening to traffic. Epoxy materials will appear to be cured and "dry to touch" prior to full chemical cross linking. Allow epoxy to cure for 2-3 days prior to exposure to water or other chemicals for best performance.

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 sheet 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.

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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High Performance Flooring
PM-279170-42 03/22