

RESUFLOTM TOPCOAT CONDUCTIVE

The following information is to be used as a guideline for the installation of Resufloor Topcoat Conductive. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 2-3

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
CONDUCTIVE SYSTEM					
<50 g/L	Primer	Resufloor MPE	2:1	200 sq. ft./gal.	3, 15 or 165 gals.
<50 g/L	Conductive Primer	3424 1-1.5 pints water per 1.25 gallon kit	4:1	250-320 sq. ft./gal.	1.25 gals.
<100 g/L	First Topcoat	Resutile TM SDS Satin	Premeasured kit	600 sq. ft./gal.	1.09 gals.
<100 g/L	Second Topcoat	Resutile SDS Satin	Premeasured kit	600 sq. ft./gal.	1.09 gals.

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 HPF maintains a technical staff that will be glad to answer your questions and give you advice pertaining to your particular installation. Large areas will require two or more mixers.

INSTALLATION

Sherwin-Williams materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of Resufloor Topcoat Conductive. 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°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.

PRIMER

- Premix Resufloor MPE part A using a Jiffy[®] mixer blade and slow-speed drill until uniform.
- Measure out 2 gallons of part A and add to a 5-gallon bucket. Add one gallon of part B and mix with a Jiffy blade and slow-speed drill for 2 minutes, making sure to use the mixing blade to scrape all sides of the bucket.
- Immediately pour the entire batch of mixed material onto the floor in a single bead.
- Using a flat blade squeegee, spread the material over the floor from left to right, overlapping each previous squeegee pass by 1/2. Spread the material out evenly at 200 square feet per gallon.
- Immediately back-roll the material perpendicular to the squeegee passes.

Note: Using spiked shoes will help with the installation.

CONDUCTIVE PRIMER

Install copper grounding prior to installation of the Resuflo Aqua 3424. Contact Technical Service for more information.

- A. Premix 3424A (hardener) and 3424B (resin) separately, using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to whip air into the material.
- B. Add 4 parts 3424A (hardener) to 1 part 3424B (resin) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform. 3424 must be reduced with potable water up to 10-15% minimum. DO NOT reduce product until after both components have been mixed together for 90 seconds. Mix side A and side B for a minimum of 90 seconds, then ADD 1-1.5 pints of water per 1.25-gallon kit. Reduction water must be added after A side and B side are mixed first.
- C. Apply using a short nap roller at a rate of 250-320 square feet per gallon (5-6 WFT mils). Allow to cure at least 4 hours prior to topcoating but no more than 24 hours. A light sanding may be required prior to applying topcoat.
- D. Inspect primer coat prior to application of system. Test surface resistance in accordance with NFPA 99. Resistance range should be less than 150,000 ohms. If deviation from this range occurs, consult the Sherwin-Williams Technical Service Department immediately.

TOPCOAT

MIXING AND APPLICATION

- A. Premix part A using a Jiffy mixer blade with slow-speed drill. **Pot Life:** Mix only enough material which can be used within 30 minutes.
Note: Once opened, this material cannot be resealed for later use.
 - B. Continue to mix and add part B. Mix for 1 minute using a Jiffy mixer blade and slow-speed drill. Pour mixed parts A/B into part C while mixing.
Note: Part C is not blended — DO NOT SPLIT MIX OR PRODUCT MAY NOT MEET PERFORMANCE SPECIFICATIONS. Mix for 3 minutes using a Jiffy mixer blade and slow-speed drill. Move the blade up and down the sides of the pail and across the bottom to ensure contents are thoroughly mixed so no dry filler remains.
 - C. COLORS: Use colorants at a rate of one-half unit per 1 gallon (3.78 liters) of Resutile SDS. Premix Sherwin-Williams Colorant before adding to the combined Parts A/B/C to ensure uniform color. Add colorant to combined Parts A/B/C and mix using a Jiffy mixer blade and slow-speed drill. Mix until well blended. Pour into application tray.
 - D. Apply Resutile SDS at the rate of 600 sq. ft./gallon (55.7 m²/3.78 L) with a 3/8" (10 mm) nap roller. For proper appearance and development of physical properties, it is crucial that material is not applied above or below this rate. Material applied thicker will tend to foam at higher humidities and temperatures. Dip the roller in the coating and lightly roll out excess in the application tray. Apply material in an area no wider than 10 feet (3.0 meters). One dip should cover about 45 sq. ft. (4.2 m²). 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, and will show more roller marks. Insufficient material will cause the floor to look non-uniform. If you cannot see the grit texture, the material is too thick. 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: This product cannot be finish rolled by a separate individual. Late finish rolling may introduce foam in the coating, especially at higher humidities and temperatures. ALLOW COATING TO DRY 24 HOURS at 75°F (24°C), 50% relative humidity. Allow more time at low temperatures, low humidity.
 - E. Abrade the first topcoat of Resutile SDS with 120-150 mesh sanding screens. Vacuum and tack wipe the abraded surface, removing all sanding dust and debris.
 - F. Repeat steps A through D.
- Full coating properties take 14 days to develop.

GROUNDING STATIC CONTROL FLOORING

All static control flooring systems must be connected through an equipotential couple to a permanent earth ground. It is absolutely critical that a true earth ground be established and that a reference ground not be used. The ground couple is established over the primer layer with a conductive strip, mesh, wire or tape in accordance with EOS/ESD S6, "Standard for Protection of Electrostatic Discharge Susceptible Items—Grounding—Recommended Practice". Contact the Technical Service Department for additional information.

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 at 40°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.

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 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.

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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