

RESUFLO TERRAZZO TG

Sherwin-Williams Resufloor Terrazzo TG is a decorative flooring system that combines high-solids, pigmented epoxy resin with colored marble, granite chips or other approved aggregates in a troweled mortar system. This mortar is then ground and polished to reveal the natural beauty of the aggregates surrounded by the coordinating epoxy matrix. Available with a flexible membrane for added adhesion, toughness, durability and waterproofing.

ADVANTAGES

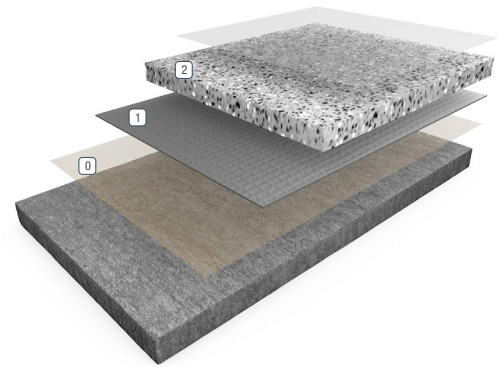
- Aesthetically pleasing appearance
- Unlimited color and design options
- Durable and wear resistant 1/4" or 3/8" systems
- Chemical and stain resistant
- Fiberglass scrim optional for maximum tensile strength and crack isolation
- Optional waterproofing and/or membrane
- Meets and/or exceeds all NTMA and TTMAC standards
- Meets ADA standards
- LEED® v4 compliant
- Acceptable for use in USDA inspected facilities
- Designed for easy to clean and smooth surfaces
- Available with an antimicrobial agent
- 7-Day Chemical Resistance (ASTM D 1308):

| | Result |
|-------------------------|--------|
| Distilled Water | NE |
| Mineral Water | NE |
| Isopropanol | NE |
| 1% Soap Solution | NE |
| 10% Sodium Hydroxide | NE |
| 10% Hydrochloric Acid | NE |
| 5% Acetic Acid | NE |
| 0.25 Detergent Solution | NE |
| 30% Sulfuric Acid | NE |
| Ethanol | NE |

(NE=No Effect)

USES

- Commercial, Retail and Institutional facilities
- Animal Care and Animal Research
- Health Care, Research and Pharmaceuticals



0 Primer 1 Crack-Bridging Membrane with scrim (Optional) 2 Mortar/Grout

TYPICAL PHYSICAL PROPERTIES

Binder Resin 3520

| | |
|--|---|
| VOC (Volatile Organic Content) EPA Method 24 | <50 g/L |
| Hardness Shore D /@24 hours ASTM D2240 | 85/65 |
| Compressive Strength ASTM D 695 | 10,000 psi (or) 10,000 psi/68.9 MPa 68.9 Mpa |
| Tensile Strength ASTM D 638 | 3,000 psi (or) 3,000 psi/20.7 MPa 20.7 MPa |
| Flexural ASTM D 790 | 4,500 psi (or) 4,500 psi/31.0 MPa 31.0 MPa |
| Flexural Modulus ASTM D 790 | 500,000 psi (or) 500,000 psi/3445 MPa 3445 MPa |
| Abrasion Resistance ASTM D 4060, CS-17 Wheel/1000 cycles | 70-90 mgs loss |
| Adhesion ACI 503R | >300 psi/2.4 MPa, concrete failure |
| Water Absorption ASTM D 570 | 0.1% |

System

| | |
|---|-------------------------------------|
| Critical Radiant Flux ASTM E 648 | .90 |
| Resistance to Elevated Temperatures No slip or flow at 158°F MIL-D-3134J | No slip or flow at 158°F |
| Indentation MIL-D-3134J | None |
| Impact Resistance MIL-D-3134, Sec. 4.7.3 | Withstands 16 ft lbs w/out cracking |
| Thermal Coefficient of Linear Expansion | 25 x 106 in/in/°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 Terrazzo TG. 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 60-90°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 3-5

| VOC MIXED | | MATERIAL | MIXED RATIO | THEORETICAL COVERAGE PER COAT CONCRETE | PACKAGING |
|------------------------------|---|---|----------------------------------|---|--|
| <100 g/L 0 | Optional Membrane Optional Scrim | 3556 FS38-4.4 oz. | 1:1 | 40 sq. ft. / gal | 2 or 10 gals |
| <50 g/L <50 g/L 0 0 | Option #1 Primer Mortar @ 1/4" | 3579 3520 Marble, Glass, Granite chips or other approved aggregates 5270 | 2:1 4:1 #0 #1 | 250 sq ft / gal 60-70 sq. ft. / 5 gals 50# 100# 25# | 3 or 15 gal 5 -250 gals 50 lb. bag |
| <50 g/L <50 g/L 0 0 | Option #2 Primer Mortar @ 3/8" | 3579 3520 Marble, Glass, Granite chips or other approved aggregates 5270 | 2:1 4:1 #0 #1 #2 | 250 sq ft / gal 40-45 sq. ft. / 5 gals 50# 50# 50# 25# | 3 or 15 gal 5 -250 gals 50 lb. bag |
| <50 g/L | Grout | 3520 | 4:1 | 400-500 sq. ft. | 1.25 - 5 gals |
| <50 g/L | Seal Coat | 4401 | Single Component | 500-750 sq. ft. / gal | 1, 5 or 55 gals |

For different optional seal coats, such as 4503 Terrazzo Acrylic Sealer, consult individual Technical Data Sheet for mixing and application instructions.

MEMBRANE OPTIONAL

Mixing and Application

1. Premix 3556A (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 1 part 3556A (resin) to 1 part 3556B (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. Immediately pour the mixed material onto the substrate and pull out using a v-notched red rubber squeegee at a spread rate of 40 square feet per gallon to yield 40 mils WFT. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Allow material to cure overnight at 73°F surface temperature. Material cures slower at lower temperatures.

Fiberglass Scrim (Optional)

Application

1. If optional fiberglass scrim is used, the scrim should be laid into the wet surface of the Resuflo. **DO NOT** push the scrim to the substrate. The pattern of the scrim should be visible.

PRIMER

Mixing and Application

1. Premix 3579A (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 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 at 250 square feet per gallon to yield 5-6 mils WFT evenly with no puddles making sure of uniform coverage. Coverage will vary depending upon porosity of the substrate and surface texture.
4. Wait until primer is tacky (usually one hour), before applying the mortar. If primer is not going to be topped within open time, broadcast silica sand into resin lightly but uniformly and allow to cure overnight.

MORTAR

Mixing and Application

1. Premix 3520A (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 4 parts 3520A (4 gallons resin) to 1 part 3520B (1 gallon hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform. Add 150 lbs. of selected aggregate blend or other approved aggregates and 25 lbs. of 5270 Epoxy Filler per 5 gallons of mixed 3520 resin. Continue mixing until all aggregates are wet out.
3. Immediately pour the mixed material onto the substrate and hand or power trowel in place.
4. Allow material to cure for 18-24 hours minimum.

Grinding

Rough Grinding

1. Grind with 24 and 80 grit stones or with comparable diamond plugs.

GROUT

Mixing and Application

1. Premix 3520A (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 4 parts 3520A (resin) to 1 part 3520B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform.
3. Apply using a red rubber squeegee or spring-steel trowel to fill all voids completely.
4. Allow to cure for 18-24 hours minimum.

Grinding

Fine Grinding

1. Grind with a minimum 80-120 grit stone until all grout is removed from surface. Upon completion, terrazzo shall show a minimum of 70-75% of marble chips.

Repeat Rough Grinding and Grout Coat steps if a high number of large voids still exist.

SEAL COAT

Mixing and Application

1. Apply 4401 using a lamb's wool applicator. Apply at a spread rate of 500-750 square feet per gallon evenly with no puddles making sure of uniform coverage.
2. Allow to cure for 2-4 hours before applying second coat. Allow 24 hours minimum before opening to traffic.

For different optional seal coats, such as 4503 Terrazzo Acrylic Sealer, consult individual Technical Data Sheet for mixing and application instructions.

CLEAN UP

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.

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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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