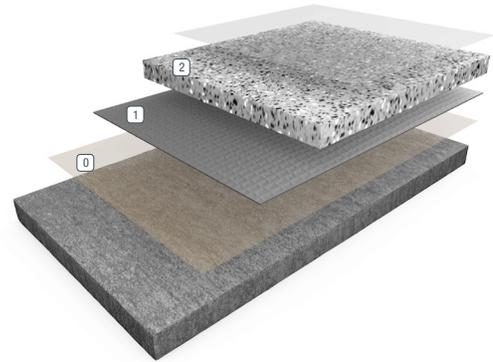


# RESUFLO TERRAZZO TG

**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.



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

## 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

## TYPICAL PHYSICAL PROPERTIES

### Binder Resin 3520

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

### System

<b>Critical Radiant Flux</b> ASTM E 648	.90
<b>Resistance to Elevated Temperatures</b> No slip or flow at 158°F MIL-D-3134J	No slip or flow at 158°F
<b>Indentation</b> MIL-D-3134J	None
<b>Impact Resistance</b> MIL-D-3134, Sec. 4.7.3	Withstands 16 ft lbs w/out cracking
<b>Thermal Coefficient of Linear Expansion</b>	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	<b>Option #1</b> 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	<b>Option #2</b> 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](http://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.

### United States & Canada

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