

PART A GP3530A01
PART B GP3530B01
PART C GP3530C01

CLEAR
HARDENER
AGGREGATE

Revised: January 11, 2024

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUFLOOR SCT is a three-component, high solids epoxy that contains conductive powder. It is applied at 15-20 mils (0.38-0.51 mm) over an electrically insulating coat of Sherwin-Williams epoxy.

Advantages:

- LEED® v4 - Indoor Air Quality credits available.
 - Meets requirements per CDPH-CA Section 01350 Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental chambers Version 1.2.
- Electrostatic Discharge Control - Meets ANSI/ESD S20.20-2014 for floor resistance readings between 1×10^5 and 1×10^9 ohms and <100 volts Body Voltage Generation
- Reduced solvent means less evaporation and less waste
- Low odor. Can be applied during normal business hours.
- Complies with SCAQMD VOC regulations

TYPICAL USES

- Packaging
- Manufacturing / Automotive Manufacturing
- Avionics
- Electrical Assembly / Production
- Clean Room / Lab
- Warehouse / Distribution

GENERAL INFORMATION

Options:

Colors in Resufloor SCT. Sherwin-Williams Colorants must be added to Resufloor SCT. DO NOT use White. Use Light Gray, Canada Gray, Medium Gray, Summer Gray, California Gray, Sandy Beige, Baby Blue, Sky Blue, and Tile Red at a rate of 1/2 pint (8 fluid oz.) per 3.05-gallon (11.55 liter) unit of Resufloor SCT. Contact Sherwin-Williams Company coatings technical support if additional colorants are desired as they may not be compatible.

Limitations:

Colors: Use of color is required in Resufloor SCT. DO NOT USE White.

Hide: The topcoat must be applied over a pigmented primer or existing coating of similar color to obtain color hide in Resufloor SCT. The resulting system color will be closer to the primer.

Contamination (Fisheyes): Product may fisheye if oil, silicones, mold release agents or other contaminants are present.

ORDERING INFORMATION

Packaging:

Part A: 1.90 gallons (7.2L) in a 5 gallon (18.9L) pail
Part B: 0.97 gallons (3.7L) in a 1 gallon (3.8L) can
Part C: 5.15 lbs. in a 5 gallon (18.9L) pail

PRODUCT CHARACTERISTICS

Color: Custom colors are available

Volume Solids: 84.92%, mixed (ASTM D2369)

Weight Solids: 92.30%, mixed (ASTM D2369)

Mix Ratio: 1:1:1 by unit

VOC (ASTM D3960): <100 g/L ; 0.83 lb/gal, mixed

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	15.0 (375)	20.0 (500)
Coverage sq ft/gal (m²/L):	80 (2.0)	100 (2.5)

Drying Schedule:

	@ 65°F (18°C)	@ 70°F (21°C)	@ 75°F (24°C)	@ 80°F (27°C)	@ 90°F (32°C)
Tack Free Time:	18 hours	13 hours	11 hours	9 hours	7 hours
Dry Hard:	24 hours	20 hours	17 hours	13 hours	10 hours
Foot Traffic:	24 hours	24 hours	24 hours	24 hours	24 hours
To Recoat:	Maximum: up to 24 hours for all conditions				

Shelf Life: 12 months, unopened
Store indoors at 65°F (18°C) to 90°F (32°C)

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results*
Abrasion Resistance	ASTM D4060, CS-17 wheel, 1000gm load, 1000 cycles	90-100
Coefficient of Friction - COF James Friction Tester	ASTM D2047	0.50-0.55
Coefficient of Friction, Wet Static, BOT 3000	ANSI/NFSI B101.1-2009	0.97
Surface Resistance Point to Point / Point to Ground	ESD Assoc. ANSI/ESD STM 7.1-2013	1.x10 ⁵ ohms to 1.x10 ⁹ ohms
Water Absorption, 24-hour immersion	ASTM D570	0.2% weight increase

*Results are based on conditions at 77°F (25°C)

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SURFACE PREPARATION

CHECK THE TEMPERATURE AND HUMIDITY: Floor temperature and materials should be between 65°F (18°C) and 90°F (32°C). Humidity must be less than 80%. **DO NOT** coat unless floor temperature is more than five degrees over the current, local dew point.

CHECK THE CONCRETE: Concrete must be structurally sound and free of curing membrane, paint and/or other sealer. If you suspect that the concrete has been previously sealed, call your Sherwin-Williams representative for further instructions.

CHECK FOR MOISTURE: Concrete must be dry before application of this floor coating material. Concrete moisture testing must occur. In-situ relative humidity testing is recommended. Readings must be below 75% relative internal concrete humidity. Test methods can be purchased at www.astm.org, see F2170, or follow manufacturer's instructions. If moisture issues are present, the use of a moisture mitigation system may be a consideration. Please contact your Sherwin-Williams representative for further information / instructions.

NOTE: Although moisture testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and/or you suspect you may have concrete contamination. Additional testing may be necessary to determine the vapor barrier and any contamination.

APPLICATION EQUIPMENT

- Protective clothing
- Spiked shoes
- Disc machine
- 60 grit sandpaper
- Slow speed drill (500 rpm or less)
- 18-24" Flat rubber squeegee
- 18-24" 1/16" Notched rubber squeegee
- Roller assembly (18")
- Jiffy mixer blade
- Mohair Roller and Refill (18")
- 80 grit sandpaper

ASSEMBLE EQUIPMENT: Due to the limited pot life of the material, all application equipment, etc. should be ready for immediate use. (Clean roller with tape to remove any residual lint.)

PREPARATION

Detergent scrub and rinse with clean water to remove surface dirt, grease, oil and contaminants.

One of the following preparation methods may be used:

EasyPrepTM: With 25/35 grit concrete tool, coating system must be 10-25 mils (0.25-0.64 mm).

Diamond Grinding: Coating system thickness varies with the type of diamond used. Sweep and vacuum to remove fine dust.

Steel Shot Blast: Coating system must be >16 mils (>0.41 mm). Use magnetic broom to remove excess shot, sweep to remove large debris and vacuum to remove fine dust.

Scarify: Coating system must be >25 mils (>0.64 mm). Sweep to remove large debris and vacuum to remove fine dust.

JOINTS: Depending on the preference of the facility owner, joints may or may not be filled. If the joints are filled, non-moving joints, i.e. contraction or control joints, can be hard filled with thickened, 100% solids epoxy or with a semi-rigid joint filler such as Resufloor 3580. Construction joints less than one inch wide may also be filled with Resufloor 3580. Isolation or expansion joints must be filled with a flexible material designed for this purpose.

APPLICATION INSTRUCTIONS

PRIMER:
 RESUFLOTM SCT MUST BE APPLIED OVER A SHERWIN-WILLIAMS 100% SOLIDS EPOXY PRIMER. (See appropriate epoxy product bulletin for application instructions.)

BUILD COAT:
 AT LEAST 8 MILS OF AN EPOXY BUILD COAT ON TOP OF THE EPOXY PRIMER ARE RECOMMENDED FOR COMPLETE HIDE. (See appropriate epoxy product bulletin for application instructions.)

ELECTRICAL GROUNDING:
 If Resufloor SCT is the primary ground, then a grounding system that meets the customer's specifications needs to be connected to the common ground of the facility. If copper tape is used, install the copper tape on the insulator coat, underneath the Resufloor SCT.

COVERAGE RATE will depend upon required thickness. A one unit 3.05 gallons (11.53 liters) of Resufloor SCT will cover:
 100 ft² (2.5 m²) @ 15 mils (0.38 mm) wet/dry film
 80 ft² (2.0 m²) @ 20 mils (0.51 mm) wet/dry film

PREMIX PART A USING A JIFFY MIXER BLADE with slow speed drill. **POTLIFE:** Mix only enough material which can be used within 25 minutes.

PREMIX PART B BY SHAKING THE CAN 10 TIMES before adding it to the Part A.

WHILE CONTINUING TO MIX THE PART A, 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.

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. If the filler is not properly dispersed, the electrostatic discharge properties of the coating may be diminished.

COLORS: Use Colorants at a rate of one-half pint (8 fluid oz.) per 3.05-gallons (11.55 liters) of Resufloor SCT. 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.

IMMEDIATELY POUR ALL THE MIXED MATERIAL onto the floor in a single bead. Wet out the mohair roller (that will later be used for backrolling) in the bead of material.

PUSH THE NOTCHED SQUEEGEE at an even speed with down pressure. *1/8" (3.18mm) notched squeegee to apply 15-20 mils (0.38-0.51 mm)

*These guidelines were arrived at by using new squeegees on smooth concrete with little applied pressure. The application rate is affected by worn squeegees, applied pressure and texture of the concrete.

ROLL THE MATERIAL PERPENDICULAR TO THE WAY IT WAS SQUEEGEED. Backrolling the material with a mohair roller will more efficiently fill in imperfections (holes).

ALLOW COATING TO CURE 24 HOURS at 75°F (24°C) before opening to light traffic. Allow more time at low temperatures and for heavier traffic.

TEST THE SURFACE RESISTIVITY after 24 hours, to confirm system falls within product specifications. The final reading should be taken after a 7-day cure period and recorded as a baseline for future audits. Full coating properties take 14 days to develop.

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CHEMICAL RESISTANCE

Reagent	1 Day	7 Days
Hydrochloric Acid 10%	E	G
Hydrochloric Acid 30% (Muriatic)	G	G
Nitric Acid 10%	E	G
Phosphoric Acid 50%	G	G
Sulfuric Acid 37% (Battery Acid)	G	G
Acetic Acid 10%	F	F
Citric Acid 10%	E	G
Oleic Acid	G	G
Ammonia Hydroxide 10%	E	E
Sodium Hydroxide 50%	E	E
Ethylene Glycol (Antifreeze)	G	F
Isopropyl Alcohol	G	F
Methanol	P	P
D-Limonene	E	E
Jet Fuel, JP-4	E	E
Jet Fuel, Philip, Blue Aviation	E	E
Unleaded Gasoline	E	E
Unleaded Gasoline + Ethanol	E	E
Mineral Spirits	E	E
Xylene	G	G
Methylene Chloride	P	P
MEK	P	P
PMA	F	P
Ammonium Nitrate 20%	E	E
Brake Fluid	G	G
Bleach	G	G
Motor Oil (SAE 30)	E	E
Skydrol® 500B	G	G
Skydrol® LD4	G	G
Sodium Chloride 20%	E	E
1% Tide® Laundry Soap	E	E
10% Trisodium Phosphate	E	E

ASTM D1308 Test Method 3.1.1 spot test, covered. Results are based on 1-day and 7-day. Coating cured 2 weeks prior to testing.

E - Excellent (no adverse effect) - Recommended
G - Good (limited adverse effect) - Use for short-term exposure only
F - Fair (moderate adverse effect) - Not recommended
P - Poor (unsatisfactory) - Little or no resistance to chemical

MAINTENANCE

Allow floor coating to cure at least one week before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).

Care: Proper maintenance will increase the life and help maintain the appearance of your new Tennant floor coating. Sweep and scrub your new coating regularly, as dirt and dust are abrasive and can quickly dull the finish, decreasing the life of your coating. Remove spills quickly as certain chemicals may stain and could possibly permanently damage the finish.

Use soft nylon brushes or white pads on your new floor coating. Any brush more abrasive than a soft nylon or white pad can cause premature loss of gloss.

Caution: Avoid scratching or gouging the surface. All floor coatings will scratch if heavy objects are dragged across the surface.

Do not drop heavy or pointed items on the floor as this may cause chipping or concrete popouts in the case of a weak cap.

Rubber tires can permanently stain the floor coating from plasticizer migration. Plexiglass between the tire and the floor coating can prevent discoloration.

Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

Repair: Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

TINTING

Only tint with HPF Universal Colorants. Do not tint with GIS colorants. Use 1/2 pint (8 oz) of colorant per 3.05-gallon mix of Resufloor SCT for all colors. Do not use White.

SAFETY

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.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet 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 your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

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.