

PART A GP4621A01
PART B GP4621B01
PART C GP4621C01

CLEAR
HARDENER
AGGREGATE

Revised: April 15, 2023

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUTILE SDS is a light-stable urethane that contains a conductive filler to yield static dissipative properties. This coating has a satin appearance for long-lasting durability.

Advantages:

- Electrostatic discharge control - meets ANSI/ESD S20.20-2007 for resistance $<1 \times 10^9$ ohms and <100 volts Body Voltage Generation
- 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.
- Reduced solvent means less evaporation and less waste
- Low odor - can be applied during normal business hours
- Complies with SCAQMD VOC regulations

TYPICAL USES

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

GENERAL INFORMATION

Use the same color in the epoxy and Resutile SDS. White is not recommended for this system.

Colors in Epoxy: Use colorants at a rate of one unit per 3-gallon (11.34 liters) mix. Standard Colorants - Yellow and Light Gray will not impart total hide. Use these colorants at a rate of two units per 3-gallon (11.34 liters) mix. Similar colorants also may not hide as well.

Colors in Resutile SDS: Use Colorants at a rate of one-half unit per 1-gallon (3.78 liters) mix.

LIMITATIONS:

Colors: The use of color is recommended in Resutile SDS. 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 Resutile SDS. 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.

Chemical Resistance / Staining: Reduced chemical resistance and staining is possible in pigmented versions of the system.

ORDERING INFORMATION

Packaging: Part A: 1.48 gallons (5.6L) in a 5 gallon (18.9L) pail
Part B: 0.40 gallons (1.5L) in a half-gallon (1.9L) can
Part C: ~3.3 lbs. in a 2 gallon (7.6L) pail

PRODUCT CHARACTERISTICS

Color: Clear
Volume Solids: 92.49%, mixed (ASTM D2369)
Weight Solids: 93.67%, mixed (ASTM D2369)
Mix Ratio: 1:1:2 by unit
VOC (ASTM D3960): 6 g/L ; 0.05 lb/gal

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	3.0 (75)	3.0 (75)
~Coverage sq ft/gal (m²/L):	600 (14.7)	600 (14.7)

Drying Schedule:

	@ 60°F/16°C	@ 60°F/16°C	@ 75°F/24°C	@ 90°F/32°C	@ 90°F/32°C
	20% RH	80% RH	13% RH	20% RH	80% RH
Tack Free:	6.5 hours	12-16 hours	3.5 hours	1.5 hours	12-16 hours
Foot Traffic:	24 hours	24 hours	24 hours	24 hours	24 hours
Recoat Window:	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	38 mg loss
Body Voltage Generation	ANSI/ESD STM 97.2 (ANSI/ESD S20.20 - Method 2)	12 volts with ESD shoes ; 32 volts with heel straps
Body Voltage Decay (with ESD shoes or heel straps)	AATCC 134-1979 (modified)	1,000 volts to <10 volts in <1.0 second
Coefficient of Friction	ASTM D2047	0.50
Flammability (topcoat resin)	ASTM D635	182 mm/min
Koenig Hardness, 3 Mil Film (resin only)	ASTM D4366	171.3
Resistance to Ground in Combination with a Person	ANSI/ESD STM 97.1 (ANSI/ESD S20.20 - Method 1)	$<3.5 \times 10^7$ ohms (ESD shoes or heel straps)
Surface Resistance Point to Point / Point to Ground	ESD Assoc. ANSI/ESD STM 7.1-2013	1×10^5 ohms to 1×10^9 ohms
Water Absorption, 24-hour immersion	ASTM D570	1.81%
Wet Static Coefficient of Friction, BOT 3000	ANSI/NFSI B101.1	0.95

*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 80°F (27°C). Humidity must be less than 70%. **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. Consult 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
- Jiffy® mixer blade
- Application tray
- Spiked shoes
- Disc machine
- 18-24" flat rubber squeegee
- 18-24" 1/16" notched rubber squeegee
- Roller assembly (18")
- 3/8" medium nap roller (18")
- 80 grit sandpaper
- 60 grit sandpaper
- Slow speed drill (500 rpm or less)

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.

THICK FILM APPLICATIONS (25 mils / 0.64 mm):
Steel Shot Blast: Use magnetic broom to remove excess shot, sweep to remove large debris and vacuum to remove fine dust.
Diamond Grind: 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

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

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.)

If Resutile SDS 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 Resutile SDS.

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.

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:** The 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.

COLORS: Use colorants at a rate of one-half unit per 1-gallon (3.78 litres) 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.

APPLY Resutile SDS at the rate of 600 ft²/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 at a lower application rate 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 before opening to light traffic. Allow more time at low temperatures, low humidity or for heavier traffic. Full coating properties take 14 days to develop.

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PRODUCT INFORMATION

CHEMICAL RESISTANCE

Reagent	1 Day	7 Days
Hydrochloric Acid 10%	E	E
Hydrochloric Acid 30% (Muriatic)	E	F
Nitric Acid 10%	E	E
Phosphoric Acid 50%	F	F
Sulfuric Acid 37% (Battery Acid)	E	E
Acetic Acid 10%	E	E
Citric Acid 10%	E	E
Oleic Acid	E	E
Ammonia Hydroxide 10%	E	E
Sodium Hydroxide 50%	E	E
Ethylene Glycol (Antifreeze)	E	E
Isopropyl Alcohol	E	E
Methanol	P	P
D-Limonene	F	F
JP-4 Jet Fuel	E	E
Gasoline	E	F
Mineral Spirits	E	E
Xylene	E	E
Methylene Chloride	P	P
MEK	F	F
PMA	E	E
Ammonium Nitrate 20%	E	E
Brake Fluid	E	E
Bleach	E	E
Motor Oil (SAE 30)	E	E
Skydrol® 500B	E	E
Skydrol® LD4	E	E
Sodium Chloride 20%	E	E
1% Tide® Laundry Soap	E	E
10% Trisodium Phosphate	E	E
Coffee	E	E
Coke®	E	E
Ketchup	E	E
Mustard	G*	G*
Red Wine	E	G*
3M™ DuraPrep™	G*	F
Purdue Betadine Solution	G*	G*

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

*only adverse effect was staining

NOTE: Reduced chemical resistance and staining is possible in pigmented versions of the system

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 Sherwin-Williams 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 one pint of colorant per ~2.10 gallon kit of Parts A, B and C.

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.