Protective & Marine Coatings

GENERAL POLYMERS® 3525
STATIC CONTROL EPOXY COATING

PART A GP3525
PART B GP3525B01
SERIES HARDENER

Revised February 9, 2017

PRODUCT INFORMATION

PRODUCT DESCRIPTION

GENERAL POLYMERS 3525 STATIC CONTROL EPOXY COATING is a high solids, two component epoxy coating used for static dissipative and conductive flooring systems. GENERAL POLYMERS 3525 STATIC CONTROL EPOXY COATING is designed as a static dissipative coating over an insulative surface and as a conductive coating when used over a conductive primer.

ADVANTAGES

- Two component system for ease of use
- Good chemical resistance
- Dissipates static charge
- Conductive when used over conductive primer

TYPICAL USES

GENERAL POLYMERS 3525 STATIC CONTROL EPOXY COATING is used as a coating or topcoat over standard flooring systems to provide a static dissipative flooring system in the range of 10^6 to 10^9 ohms resistance. It is an ideal flooring finish in computer rooms, circuit board assembly areas, hangars and where highly sensitive electronic equipment is used regularly. GENERAL POLYMERS 3525 STATIC CONTROL EPOXY COATING can be used as a conductive coating in the range of 25,000 to 10^6 ohms resistance when applied over a conductive primer (GP3424). Conductive flooring is required in flammable material handling areas, black powder storage areas, and other areas where highly explosive materials are present. GENERAL POLYMERS 3525 STATIC CONTROL EPOXY COATING provides exceptional resistance to wear, abrasion and chemical attack from most common alkalis and acids.

LIMITATIONS

- **Installation of GP3525 as an ESD finish requires a moderate humid environment (ANSI-ESD STM 7.1) of 50% RH +/- 5%**
- Slab on grade requires vapor moisture barrier.
- Substrate must be structurally sound, dry and free of bond inhibiting contaminants.
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50ºF (10°C). Substrate temperature must be at least 5ºF (3ºC) above the dew point (for lower temperature installation contact technical service).
- **Strictly adhere to published coverage rates.**
- A conductive primer must be used with this product when being used as a conductive coating.
- This coating though resistant, is not a guarantee against tire staining. Vehicular tires from cars and trucks to tractors and boat trailers are varied and have the potential to leave a stain under certain conditions. Place rubber mats or carpet pieces under the tires to avoid the issue.

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the "Instructions for Concrete Surface Preparation" (Form G-1) for complete details.

PRODUCT CHARACTERISTICS

Color:	Light, Medium Gray
Mix Ratio:	2:1
Volume Solids:	88% ± 2%, mixed
Weight Solids:	93% ± 2%, mixed
VOC (EPA Method 24):	<100 g/L mixed; 0.83 lb/gal
Viscosity, mixed:	4,500 cps

Recommended Spreading Rate per coat:

	Minimum		Maximum	
Wet mils (microns):	**4**	(100)	**6**	(150)
~Coverage sq ft/gal (m^2/L):	**275**	(7.0)	**400**	(10.2)

Drying Schedule @ 4-6 mils (100-150 microns) wet:

	@ 73°F (23ºC)
To touch:	5-7 hours
To recoat:	12-18 hours
Light traffic:	24 hours minimum
Full Cure:	7 days

If maximum recoat time is exceeded, abrade surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.

Pot Life: gallon mass 20 minutes @ 73°F (23ºC)

Shelf Life: Part A: 36 months, unopened
Part B: 36 months, unopened

Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: >230°F (>110°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1,000 cycles	90-100 mgs loss
Conductivity	ASTM F150-06	10^6 to 10^9 ohms
Conductivity applied over conductive base coat	ASTM F150-06	25,000 to 10^6 ohms
Flammability		Self-extinguishing over concrete
Hardness, Shore D	ASTM D 2240	70
Impact Resistance	ASTM D 2794	160 in/lbs (pass)
Resistance to Elevated Temperatures	MIL-D-3134J	No slip or flow at reqauired temperature of 158ºF (70ºC)
Static Charge Decay	MIL-B-81705B	Dissipates a 5,000 volt charge zero in less than 0.1 seconds

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APPLICATION

- **APPLICATION INSTRUCTIONS**

1. Inspect base coat prior to application of seal coat. Test surface resistance in accordance with NFPA 99. Resistance range should be less than 150,000 ohms when used as a conductive coating over a conductive primer. If deviation from this range occurs, consult the Technical Service Department immedicately.

2. **Both A & B components of 3525 must be premixed to disperse conductive elements evenly throughout the resin. It is normal to have color variations even after premixing.**

Premix 3525A (resin) and 3525B (hardener) separately, using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the materials.

3. Add 2 parts 3525A (resin) to 1 part 3525B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply using a squeegee or short nap roller at a spread rate of 320 sq. ft. per gallon to yield 5 mils WFT. Allow to cure at least 24 hours before opening to light foot traffic.

NOTE: 1). If applied too thick, the stipple size increases and roller lines may appear. 2.) Two coats will be required to hide the 3424 Conductive Black Primer. 3.) For ESD applications use a pigmented primer similar in color to the topcoat to avoid "show through" of the substrate.

ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Part B:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Weight:	12 ± 0.2 lb/gal; 1.4 Kg/L mixed, may vary by color

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

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your local sales representative for additional technical data and instructions.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life.

SHIPPING

- Destinations East of the Rocky Mountains are shipped F.O.B. Cincinnati, Ohio.
- Destinations West of the Rocky Mountains are shipped F.O.B. Victorville, California.

For specific information relating to international shipments, contact your local sales representative.

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.