

**Technical Data Sheet**



# 3525E

## Static Control Epoxy Coating

**PRODUCT DESCRIPTION**

General Polymers 3525E STATIC CONTROL EPOXY COATING is a high solids, two component epoxy coating used for static dissipative and conductive flooring systems. 3525E 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**

3525E 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<sup>6</sup> to 10<sup>9</sup> 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. 3525E STATIC CONTROL EPOXY COATING can be used as a conductive coating in the range of 25,000 to 10<sup>6</sup> ohms resistance when applied over a conductive primer (3524). Conductive flooring is required in flammable material handling areas, black powder storage areas, and other areas where highly explosive materials are present. 3525E STATIC CONTROL EPOXY COATING provides exceptional resistance to wear, abrasion and chemical attack from most common alkalis and acids.

**LIMITATIONS**

- 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 50F. Substrate temperature must be least 5F 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 brown stain under certain conditions. Place rubber mats or carpet pieces under the tires to avoid the issue.

**TYPICAL PHYSICAL PROPERTIES @ 73F**

|   |  |
|---|--|
| Mix Ratio A:B (by volume)                             | 2:1  |
| Color   | Light & Medium Gray  |
| VOC (Volatile Organic Content)                        |  |
| EPA Method 24   | Compliant  |
| SCAQMD Method 304                                     | Compliant  |
| Coverage @ 4-6 mils                                   | 275-400 sq. ft.  |
| Pot Life, 1 gallon mass                               | 20 minutes   |
| Cure Time @ 6 mils                                    |  |
| Dry to Touch  | 5-7 hours  |
| Recoat  | 12-18 hours  |
| Light Traffic   | 24 hours min.  |
| Full Cure   | 7 days   |
| Abrasion Resistance                                   | 90-100 mgs lost  |
| ASTM D 4060 CS-17 Wheel, 1,000 cycles                 |  |
| Resistance to Elevated Temperatures                   | No slip or flow at required temperature of 158F              |
| MIL-D-3134J   |  |
| Hardness, Shore D                                     | 70   |
| ASTM D 2240   |  |
| Impact Resistance                                     | 160 in-lbs.(pass)  |
| ASTM D 2794   |  |
| Flammability  | Self-extinguishing over concrete                             |
| Conductivity  | 10 <sup>6</sup> to 10 <sup>9</sup> ohms                      |
| NFPA 99   |  |
| Conductivity when applied over a conductive base coat | 25,000 to 10 <sup>6</sup> ohms                               |
| NFPA 99   |  |
| Static Charge Decay to MIL-B-81705B                   | Dissipates a 5,000 volt charge zero in less than 0.1 seconds |

## 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.

## STORAGE / APPLICATION

### • MATERIAL DELIVERY AND STORAGE

Store materials in accordance instructions, with seals and labels intact and legible. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F - 90°F.

### • APPLICATION INSTRUCTIONS

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

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 immediately.

2. Premix 3525EA (resin) and 3525EB (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 3525EA (resin) to 1 part 3525EB (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 3524 Conductive Black Primer.

## CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact the Technical Service Department.

## 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. All applicable federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials. Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

## Maintenance

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

## 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 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(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult [www.generalpolymers.com](http://www.generalpolymers.com) to obtain the most recent Product Data information and Application instructions.

## Warranty

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