

PRODUCT DESCRIPTION

Stonkote ESD is a two-component, conductive epoxy coating. It is formulated to improve cleanability and control static charge generation. Stonkote ESD is easily applied and hardens to an attractive gloss finish. When tested using the ESD-S7.1 test method, this system measures a resistance lower than 1,000,000 ohms (1.0 megohms).

USES, APPLICATIONS

Stonkote ESD is a conductive coating designed for use wherever a high-solids, corrosion-resistant, gloss-coating is required. It needs to be applied over a sealed substrate. It is especially applicable in data centers and areas that require a conductive topcoat.

PRODUCT ADVANTAGES

- Durable, gloss finish permits easy cleaning and maintenance.
- Factory proportioned packaging ensures consistent, high quality and simplified mixing.
- Static charge generation control even in low humidity environments.

PACKAGING

Stonkote ESD is packaged in units for easy handling.

One unit of Stonkote ESD consists of:

- 4 bags of Resin
- 4 bags of Amine

COVERAGE

Stonkote ESD coverage is 600 sq. ft./56 sq. m per coat at 5 to 7 mil dry film thickness (DFT). Two coats are recommended.

STORAGE CONDITIONS

Store all components of Stonkote ESD between 65 to 85°F/18 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

COLOR

Stonkote ESD is available in 8 standard colors. Custom colors are available upon request. Due to conductive elements in the material, not all light colors are possible. Monument Gray is the lightest recommended color. Please refer to the Stonkote ESD color sheet for more information.

SUBSTRATE

Stonkote ESD is designed to be installed directly over a sealed substrate. For coatings only projects, the concrete should be sealed with a pinhole filling primer such as Primer 150. A troweled mortar system with Stonkote ESD or similar is also a suitable substrate for areas requiring a more durable flooring system. When installing over a porous mortar such as Stonclad GS, a second coat of Stonkote ESD is required since the initial coat will soak into the Stonclad GS mortar. For questions regarding specific substrates contact Stonhard's Technical Service Department for recommendations.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service

PHYSICAL CHARACTERISTICS

Pot Life.....	20 minutes
(@ 77°F/25°C)	
Coverage.....	600 sq. ft./56 sq. m per unit
(@ 6.0 mil, DFT)	
Cure Rate.....	8 hours for light traffic
(@ 77°F/25°C)	24 hours for normal operations
VOC Content.....	Stonkote ESD 10 g/l
(ASTM D-2369, Method E)	

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens.

STATIC CONTROL PROPERTIES

Stonkote ESD has been specifically designed to comply with the ANSI/ESD S20.20 specification for the protection of electrical and electronic parts, assemblies and equipment.

Surface Resistance.....	<1.0 megohms
(ESD-S7.1)	
Body Voltage Generation	<100 volts*
(ESD STM97.2)	

*Body Voltage Generation is not solely a function of flooring conductivity but is a combination of many factors, including footwear and environmental conditions. Your specific environment and choice of footwear may yield slightly different results.

Electrostatic Discharge (ESD) flooring has a variety of applications from microchip manufacturing to military ordinance.

Therefore, each facility may have unique resistance requirements based on their individual ESD programs. It is important to identify the resistance requirements and test method used for each project prior to installing any ESD flooring.

ELECTRICAL TESTING

The floor must be tested after the application of Stonkote ESD. Once the Stonkote ESD is tack-free, point-to-point and point-to-ground readings should be taken. All values must fall below 1.0×10^6 ohms(Ω).

Stonhard tests all floors in accordance with the ESD S7.1 test method. Various other ESD standards and test methods are available, and they each have their own unique parameters. Please contact the Stonhard's technical service department if you wish to use a different test method.

Note: Floors are just a component of a total ESD program and should not be the only consideration.

PRIMING

For applications over concrete, Primer 150 is required to seal the slab, prior to the application of Stonkote ESD. For applications over a troweled mortar system like Stonclad GS, a preliminary coating of Stonkote ESD is recommended to ensure a pinhole free surface prior to the final application of Stonkote ESD.

MIXING

- Stonkote ESD is supplied in factory proportioned quantities.
- To achieve thorough and proper mixing, the Stonkote ESD must be mechanically mixed using a heavy-duty, slow-speed drill (400 to 600 rpm) with a Jiffy Mixer.
- Pour the contents of the resin into a mixing container and pre-mix to ensure the suspension of solids.
- Add the amine and continue to mix for 90 seconds.
- Avoid high-speed mixing that will entrain air into the mix.

APPLYING

- The Stonkote ESD must be applied immediately after mixing the two components.
- Stonkote ESD is applied with a rubber squeegee and medium nap roller at 5-7 mils WFT per coat. The roller is used to remove squeegee lines and smooth out the surface.
- Any questions regarding the application of Stonkote ESD should be directed to Stonhard's Technical Service Department.

Note: Proper coverage is important to ensure that the floor will maintain good static control properties.

NOTES

- Procedures for maintenance of the flooring system during operations are described in the Stonkleen Floor Cleaning Procedures Brochure.
- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Safety Data Sheets for Stonkote ESD are available online at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with product application or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.
- The use of safety glasses and impervious gloves is required during application.
- Avoid contact with all liquid amine and resin as they may cause skin and/or eye irritation. Workmen should cover hands with rubber gloves.
- Use only with adequate ventilation. An N-95 dust mask must be worn during all grinding and sanding steps.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high gloss coatings are subject to a reduction in gloss, while matte finish coatings can increase in gloss level under normal operating conditions.
- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep cleaned periodically to ensure no contaminant buildup occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction-enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.

IMPORTANT:

Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

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