

ASTRA-A-GLAZE ESD

product data sheet



DESCRIPTION

ASTRA-A-GLAZE ESD is a 3-component, pigmented 100% solids static dissipative coating. This coating provides a static dissipative ($10^6 - 10^9 \Omega/\text{Square}$) surface with a high gloss finish. ASTRA-A-GLAZE ESD provides an average of 14v Body Voltage Generation when utilizing dissipative footwear. Resistance readings are consistent for the life of the floor and are independent of ambient humidity. ASTRA-A-GLAZE ESD protects new and existing concrete floors from many chemicals and was designed for ultimate cleanability. The system is designed for areas where dirt or dust cannot be tolerated while providing static dissipation to protect against electrostatic discharge

BENEFITS

- Static Dissipative
- Easy to Clean
- 14v Avg. BVG
- Durable
- Stain Resistant
- Dissipates 5000 Volt charge to Zero in 0.01 seconds

TYPICAL USES

- Pharmaceutical Facilities
- Processing Areas
- Plastic Manufacturing
- Electronics Assembly
- Clean Rooms
- Packaging Lines
- Laboratories

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be profiled, clean, sound, and dry. Substrate must be primed with ASTRA-A-GLAZE ESD PRIMER. Please refer to the ASTRA COMPOSITE Surface Preparation Guidelines for more information.

APPLICATION METHOD /SPREAD RATES

Please refer to the ASTRA-A-GLAZE ESD PRIMER / ASTRA-A-GLAZE ESD Application Instructions for more information.

LIMITATIONS

This product is best suited for application in temperatures between 15°C and 35°C. Top-coating with non-conductive waxes or finishes will render the static dissipative properties ineffective. This product is not intended for use in munitions or explosive manufacturing facilities.

PACKAGING

ASTRA-A-GLAZE ESD packaged in 5kg pails and 21 Kg pails. Shelf life is 6 months in unopened containers.

COLORS

ASTRA-A-GLAZE ESD is available in Arctic Grey, Medium Grey, Slate Grey Smoke Blue, Tile Red, and Beige. Custom Color upon Request.

ASTRA-A-GLAZE ESD

TECHNICAL INFORMATION

Color	Arctic Grey, Beige, Medium Grey, Slate Grey Smoke Blue, and Tile Red
Mixed Viscosity at 25° C	1,700 cps
Pot life at 25° C	20 – 25 Minutes
Cure Time, Touch Dry at 25° C	8 – 10 Hours
Cured Film Thickness	1mm or 2mm.
Toxicity	Non – Toxic

Physical Property	Test Method	Result
Surface Resistivity	ASTM D-257	10 ⁶ -10 ⁹ Ω/Square
Static Decay	Mil-Std-3010, Method 4046	0.01 Seconds
Body Voltage Generation (with dissipative footwear)	ESD STM 97.2	14v
Compressive Strength	ASTM D-695 ASTM C-579	16,500 psi 10,500 psi
Tensile Strength	ASTM D-638 ASTM C-307	3,000 psi 1,950 psi
Tensile Elongation	ASTM D-638	7.50%
Flexural Strength	ASTM D-790 ASTM C-580	4,000 psi 2,900 psi
Hardness (Shore D)	ASTM D-2240	75-80
Linear Shrinkage	ASTM D-2566	0.02%
Linear Expansion	ASTM D-696	2 × 10 ⁻⁵
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Indentation	MIL D-3134	.025 MAX
Impact Resistance	MIL D-3134	Pass
Water Absorption	ASTM D-570	0.04%
Heat Resistance Limitation		60°C – 90°C
Flammability	ASTM D-570	Self Extinguishing
Flame Spread/NFPA 101	ASTM E-84	Class A
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles	ASTM C-501	35 mg loss
Coefficient of Friction	ASTM D-2047	0.7
VOC Content		7.45 g/l

DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please refer to the Master **“Drawings and Details”** guide for actual drawings.

GUIDE SPECIFICATIONS

This product is part of the family of ASTRA POLYMER systems. Please refer to the master **“Specifier's Guide”** for complete three part guide specs.

MOISTURE CONCERNS

Please refer to the Floor Evaluation Flow Chart in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

CLEANING

This product is considered to be a low maintenance flooring solution, however, certain textures and service environments require specific procedures. Please refer to the master **“Cleaning Guide”** for more information

JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website.

CAUTION

Adequate cross ventilation should be provided. Read, understand and follow Material Safety Data Sheets and Application Instructions of this flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed.

Before using any ASTRA. product, be sure the Material Safety Data Sheet is read and understood.

WARRANTIES

Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product.