

GLAZON® ESD

SERIES E320
STATIC DISCHARGING EPOXY FOR HEAVY DUTY USE



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DESCRIPTION

GLAZON® ESD is designed for use where rapid static discharge is required. **GLAZON ESD** is also ideal for areas subject to forklift and other heavy industrial traffic. It is also excellent for areas exposed to chemical spills or atmospheric attack.

TYPICAL USES

Concrete or horizontal steel--interior or exterior floors. Recommended for plating areas, circuit board assembly lines, pharmaceutical manufacturing, computer rooms, flammable material storage areas, and anywhere static discharge is needed.

OUTSTANDING FEATURES/BENEFITS

- Tough, resilient film withstands abrasion, impact, and severe traffic
- Offers excellent chemical resistance
- High solids means more paint in the can--less solvents, greater coverage
- Special priming is not required on most surfaces
- Good holdout and bridging properties over rough, porous surfaces
- Performs in any environment, even 0% humidity

TYPE: Epoxy/Polyamide

COLORS: Tile Red (R30), Cloud Gray (G80), Black (B01), and Slate Gray (G58)

FINISH: Flat

MIX RATIO: 1:1 by volume

PACKAGING: 2 gallon units (1 gallon "A" and 1 gallon "B")
 10 gallon units (1 - 5 gallon pail "A" and 1 - 5 gallon pail "B")

Check with your **SANPRO®** representative for availability. **SPECIAL ORDER PRODUCT**

LIMITATIONS

- Applying at temperatures between 60°F and 65°F, or humidity above 60%, requires a 20-minute induction period. Application at temperatures below 60°F is not recommended.
- To maintain consistent gloss levels, mix only the amount of product that can be applied within 30 minutes. Product applied after 30 minutes may exhibit higher gloss levels and appear darker.
- Not intended for use on vertical surfaces.
- Some chalking will occur on exterior exposure.
- A copper strip run to ground is required along each wall.
- Limit use of freshly coated floor to light traffic and non-harsh chemicals until material is fully cured. Floor must remain dry until full cure has been reached.

Net Wt/Gal	10.30 ± .4 lbs/gal (Varies according to color)	Color Stability Interior	Exterior: Fair Interior: Good
Solids (A + B)	By weight: 68 ± 2% By volume: 59 ± 1%	Pot Life	2 hours @ 70°F
Viscosity	95-115 KU at 77° F	VOC (A + B)	384 g/L (3.2 lbs/gal)
Temperature Resistance	Dry: 200°F	Storage Conditions	40°F to 100°F
Abrasion Resistance	Excellent	Recommended Coverage Rate	200 sq ft/gal @ 8 mils wet 200 sqft/gal @ 5 mils dry
Chemical Resistance	Excellent	Drying Time	Tack Free: 12 hours (@70°F, 50% humidity, adequate ventilation)
Odor	Ammonia-like	Between Coats: 12-16 hours Foot Traffic: 24 hours Heavy Traffic: 72 hours Complete Cure: 7 days	
Shelf Life	2 years in unopened containers	Scrubability	Excellent
Induction Period	None required @ 70°F, 50% humidity	Freeze/Thaw Stability in Can	Good
Thinner/Cleanup	SANPRO D112 EPOXY THINNER	Conductivity	25,000 to 1million ohms/sq.cm.
60° Gloss	2 to 5		

NOTICE

Before using this product, read all warnings and safety information printed on the label, the Material Safety Data Sheet, and the Technical Information Guide.

SURFACE PREPARATION

Surfaces **MUST** be clean, dry, and free of all dirt, grease, wax, loose or peeling paint, oil, detergents, concrete curing compounds, and other contaminants. Shotblasting is the preferred method of concrete preparation.

NEW OR UNWEATHERED CONCRETE: Allow new concrete to be "wet" cured (no curing compounds) a minimum of 30 days. Prepare surfaces as stated above.

HEAVILY SOILED, OIL-SOAKED CONCRETE: Scrape off thick deposits of grime. Degrease with **SANPRO® EASY CLEAN**, according to label directions. Prepare surfaces as stated above. This product will not adhere to contaminated surfaces.

Conduct a "MAT TEST": If the area to be coated has absorbed animal fats, grease, or oils of any kind, conduct a "mat test" after initial degreasing. Tape a small rubber floor mat down on the area in question. Tape completely around the perimeter of the mat. Allow to stand overnight. After 24 hours peel up the tape and the floor mat to examine the area. If any oil or grease has wicked up, degrease with **SANPRO EASY CLEAN** again, rinse thoroughly and allow to dry. If oil or grease still wick up, degrease the entire area again and repeat the mat test until no oil wicks up overnight. To seal the surface of such an area, after degreasing, apply one coat of **GLAZON SATIN PLUS**. Then apply finish coat(s).

Testing and core sampling of the concrete may be necessary to determine extent of contaminant saturation and suitability for coating/resurfacing. This is buyer's responsibility.

PREVIOUSLY PAINTED SURFACES: Scrape off all loose paint. Scrub the surface with a solution of **SANPRO EASY CLEAN**. Rinse thoroughly and allow to dry. Sand using 60 to 120 grit paper to insure optimum coating adhesion. NOTE: Do not paint concrete treated with a curing compound or coated with a non-epoxy coating without first shotblasting the surface. If in doubt—shotblast prior to coating

Test for Compatibility: When applying epoxy coatings, some previous coatings/sealers may "lift" during application. Test for compatibility by applying a small amount of mixed **GLAZON ESD** on the existing coating/sealer and letting it dry for 24 hours. Next, press on a piece of masking tape. Remove the tape with an abrupt upward action. If this does not remove the coating/sealer from the surface, it can be recoated with this product. If the previous coating/sealer does "lift", it must be removed by shotblasting prior to coating with **GLAZON ESD**.

METAL SURFACES: Degrease using **SANPRO D112 EPOXY THINNER**, according to label directions. Next, remove all rust, mill scale, and old paint down to a bright metal. Grind or shotblast for optimum adhesion. Remove all dust prior to painting.

NOTE: Freshly prepared metal surfaces must be coated before any discoloration or oxidation takes place. Otherwise **GLAZON ESD** will not properly adhere. If the surface becomes wet, for whatever reason, it must be dried and reblasted.

ON ALL SURFACES Conduct a "DRYNESS TEST": Area to be coated needs to be tested to determine if any hydrostatic pressure or moisture vapor transmission problems exist to avoid any disbonding that might occur due to unseen moisture in the concrete. Follow the same procedure as in "MAT TEST" above, using a plastic sheet taped to the floor for a 24 hour period. If the concrete remains dry after the 24 hours have passed, the floor is then dry enough to begin coating.

MIXING PROCEDURE

Stir Component A and Component B in their original cans before blending. Make certain that all conductive pigment in Part A is thoroughly mixed in. Scrape the can bottom to insure no settle remains prior to blending A and B. Pour equal volumes of Component A and Component B into clean container. Mix for 5 minutes and apply. Mix only what can be applied within 30 minutes.

NOTE: Allowing blended material to sit in temperatures above 70°F greatly decreases pot life. (**EXCEPTION:** When temperature is 65°F, or humidity exceeds 60%, induct for 20 minutes prior to use.) Do not apply below 60°F.

THINNING

GLAZON ESD may be used as supplied or reduced 10% with **SANPRO D112 EPOXY THINNER** for brush or roller application. Consult your **SANPRO** representative for specific information.

INSTALLATION INSTRUCTIONS

Install 0.375 inch by 10 mil uncoated single copper strip along all four sides of the perimeter. It is necessary to install multiple ground wires in the copper strip to insure correct discharge of static electricity. One ground connection on each side of the copper perimeter will suffice.

Apply, by brush or roller, a one inch wide strip of catalyzed **GLAZON SATIN PLUS** around the perimeter, where the copper ground conductor will be installed.

1) Apply a one inch wide thin bead of **SANPRO EPOXY ADHESIVE AND REPAIR COMPOUND** over a still tacky prime coat of **SANPRO GLAZON SATIN PLUS** (thinned 50% with **SANPRO D112 EPOXY THINNER**), with a 1/8 inch notched trowel. For maximum workability, do not allow the catalyzed adhesive to sit for more than an hour without installing the copper ground strip. Allow to cure for eight hours before attaching ground wires to the copper strip.

2) The copper strip is placed directly on, and forced into, the adhesive with mild pressure. Take care not to get any adhesive on the top surface of the copper. (If this does occur, clean off the excess with **SANPRO D112 EPOXY THINNER**.) At entrances smooth out the excess or apply additional adhesive until it is flush with the surface of the copper strip, creating mini ramps up and over the ground strip. Once again, take care to avoid covering any, except the very edge, of the copper surface.

3) Solder the ground wire to the adhered copper strip. The ground cable must be well protected from damage or breakage during and after installation. Therefore, the route each cable will take to ground must be carefully thought out in advance.

4) Use 200 mesh sandpaper to remove any oxide layer, if necessary, on the exposed copper surface by sanding it until it becomes a bright color. Also, use the sandpaper to scratch the surface of cured **SANPRO EPOXY ADHESIVE AND REPAIR COMPOUND**, until it appears to have a flat gloss. Remove all residue. Apply **GLAZON ESD** over the entire area, up to and covering the copper ground strip.

GLAZON ESD may be applied with brush or roller. Antiskid grit may be added to the first coat for a skid resistant finish. Conductive footwear, or ground straps, is recommended to insure static charge is continually dissipated.

Before topcoating check for blush (whitish, greasy film or deglossing). These areas can be removed by using **SANPRO EASY CLEAN** and/or an ammonia solution. Any blush must be removed prior to topcoating.

CLEANUP

Use **SANPRO D112 EPOXY THINNER** for cleanup.

SANDSTROM
PRODUCTS COMPANY

IMPORTANT NOTICE TO BUYER / WARRANTY AND LIMITATIONS ON OUR LIABILITY

We warrant our products to be free of manufacturing defects, and that they meet our current published physical properties and specifications. All information and suggestions presented are rendered gratis and is accurate to the best of our knowledge. They are based on technical data which we believe to be reliable, and are intended for use by persons having skill and "know-how," at their own discretion and risk. Prior to use, customers are cautioned to determine the suitability of our products for any given application through their own testing. NO WARRANTY IS MADE, EXPRESS OR IMPLIED, REGARDING SUCH INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS OBTAINED FROM ITS USE OR THAT OUR PRODUCT SHALL BE MERCHANTABILITY OR FIT FOR ANY PARTICULAR PURPOSE. SUCH STATEMENTS ARE NOT INTENDED TO SUGGEST INFRINGEMENT OF ANY PATENT. Since conditions of use of our products are beyond our control, all suggestions and statements are made without guarantee, warranty or other responsibility, express or implied, on our part. We assume no responsibility for results obtained, or damages incurred, from their use beyond replacing material proved to be defective or refunding the purchase price of such material at our option. Acceptance of delivery of our product means you have accepted the terms of this warranty, whether or not purchase orders or other documents state terms that vary from this warning. No seller is authorized to make any representations or warranty or assume any other liability on our behalf with any sales of our products. © 2/98 SANDSTROM PRODUCTS COMPANY 1/19/06

TECHNICAL BULLETIN

GLAZON[®] ESD GROUNDING INSTRUCTIONS

The entire installation area must be prepared by using a shot blast/vacuum unit, normally with very fine shot. Acid etching, or scarifying, the concrete surface, while adequate under some conditions, are not recommended methods of surface preparation for maximum longevity of **GLAZON ESD**. The mixing and application instructions, supplied with each product listed herein, need to be followed to insure proper cure and product life.

Uncoated single copper strip or wire is to be installed along all four sides of the perimeter. It is necessary to install multiple ground wires in the copper strip to insure correct discharge of static electricity. One ground connection on each side of the copper perimeter will suffice.

1. Apply, by brush or roller, a one inch wide strip of catalyzed **SANPRO GLAZON ESD** around the perimeter, where the copper ground conductor will be installed.
2. Apply a one inch wide thin bead of **SANPRO PERM-EPOX AR** (Series E840) over a still tacky prime coat of **SANPRO GLAZON ESD**, with a 1/8" notched trowel. For maximum workability, do not allow the catalyzed adhesive to sit for more than an hour without installing the copper ground strip. Allow to cure for eight hours before attaching ground wire to the copper strip.
3. The prepared copper strip is placed directly on, and forced into, the adhesive with mild pressure. Take care not to get any adhesive on the top surface of the copper. (If this does occur, clean off the excess with **SANPRO D112 EPOXY THINNER**.) At entrances smooth out the excess or apply additional adhesive until it is flush with the surface of the copper strip, creating mini ramps up and over the ground strip. Once again, take care to avoid covering any, except the very edge of the copper surface.
4. Solder the ground wire to the adhered copper strip. The ground cable must be well protected from damage or breakage during and after installation. Therefore, the route each cable will take to ground must be carefully thought out in advance.
5. Use 200 mesh aluminum oxide sandpaper to remove any oxide layer, if necessary, on the exposed copper surface by sanding it until it becomes a bright color. Also use the sandpaper to scratch the surface of cured **SANPRO PERM EPOX AR**, until it appears to have a flat gloss. Remove all residue.
6. **SANPRO GLAZON ESD** may now be applied over the entire area, up to and covering the copper ground strip. When mixing **GLAZON ESD**, prior to application be certain to completely mix in any conductive pigment that may have settled to the bottom of the original can containing Component A. Failure to mix in all conductive pigment will result in reduced electrostatic discharge capability.