DUR-A-FLEX
INNOVATION FROM THE FLOOR UP

PRODUCT DATA SHEET

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ARMOR-STAT ESD TOPCOAT

DESCRIPTION

ARMOR-STAT ESD Topcoat is a three or four component aliphatic urethane protective coating providing an electrostatic dissipative (10^6-10^9 Ω/Square) surface. ARMOR-STAT ESD Topcoat is the top component of the ARMOR-STAT ESD FLOOR SYSTEM. Formulated for high traffic areas, it offers the highest protection against UV degradation, chemicals, and wear. It is available in a satin finish with or without wear-resistant aluminum oxide (grit).

BENEFITS

- Static Dissipative – dissipates 5000V charge to zero in 0.01 seconds
- 5V Avg. BVG with dissipative footwear
- VOC - 57 g/L
- Low Odor
- UV Stable
- Excellent Abrasion Resistance
- Excellent Chemical Resistance
- Easy to Clean

LIMITATIONS

Do not drip and leave excess material on the floor as this could lead to blistering. ARMOR-STAT ESD TOPCOAT should not be applied more than 3-4 mils wet. During application, DO NOT use 9 inch rollers and make sure that the floor temperature and materials are between 60˚F and 80˚F. Do not coat floor if moisture is present. Do not coat floor unless floor temp is more than 5 degrees over the dew point. Do not apply if RH >80%. Dry Time is slower when Relative Humidity is less than 30%.

When recoating ARMOR-STAT ESD TOPCOAT after the re-coat window has passed (24 hours or longer), aggressively sand the floor using a floor machine with 36 grit paper to remove gloss then solvent wipe with Xylene.

TYPICAL USES

It is designed to be used as a final topcoat over DUR-A-FLEX static dissipative epoxy systems.

COLORS

ARMOR-STAT ESD TOPCOAT is available in Arctic Gray, Medium Gray, Slate Gray, Smoke Blue and Beige.

PACKAGING

ARMOR-STAT ESD TOPCOAT is available in premeasured kits, and is available with or without wear grit.

APPLICATION INSTRUCTIONS

NOTE: DUR-A-GARD ESD should be used as the undercoat for this system. ARMOR-STAT ESD TOPCOAT is typically applied with a 1/8" notched squeegee. Applicators should wear spiked shoes (cross roll).

1. Pour ARMOR-STAT ESD hardener into a 2 gallon bucket. Pre-mix the Armor-Stat resin with a Jiffler for 30 seconds. Add ARMOR-STAT ESD resin to the hardener and mix for 30 seconds. Add ARMOR-STAT ESD Powder slowly and mix for another 30 seconds. Slowly add ARMOR-STAT ESD Grit and continue mixing for an additional 30 seconds.

2. Pour a 4 to 6 inch "ribbon" of the mixed ARMOR-STAT ESD on the floor (typically along the far wall or a joint) and apply using a 1/8" notched squeegee. (NOTE: Best results are achieved when the points of the squeegee are slightly worn.) Immediately back roll with a quality non-shed 3/8" nap roller overlapping each previous roll by 2-4 inches. While wearing spiked shoes, cross roll entire area as you go. Spread at a rate of 350 sq. ft. per kit.

IMPORTANT: Use a mil thickness gage at regular intervals to ensure proper thickness of 3 – 4 mils.

3. Occasionally remix ARMOR-STAT ESD TOPCOAT in bucket with a stick to prevent settling of the grit/powder.

ARMOR-STAT ESD TOPCOAT KIT SPREAD RATES

With and without Grit = 350 SF/kit

JOINT GUIDELINES

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

MOISTURE CONCERNS

Please refer to the Floor Evaluation and Guidelines in the Contractor's Center of our website.

CLEANING

This product is considered a low maintenance flooring solution;

however certain textures and service environments do require certain procedures. Please refer to the master "Cleaning Guide" located in the Contractor Center on our website.

CAUTION

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. **KEEP OUT OF REACH OF CHILDREN.**

ARMOR-START ESD TOPCOAT **TECHNICAL INFORMATION**		
VOC		57 g/L
% Solids by Weight		69%
Tensile Strength	ASTM 2370	7,000 psi
Hardness	ASTM D 3363	>4H
Taber Abrasion Resistance A&B 1000g load, 1000 cycles, CS-17 wheel after full cure	ASTM D 4060	Satin Finish with grit - 5 mg loss no grit - 25 mg loss
Adhesion	ASTM D-4541	Substrate Failure
UV Resistance		Excellent
Static Coefficient of Friction	ASTM D-2047	0.6
60° Gloss	ASTM D-523	30 +/-10
Mixed Viscosity (Brookfield, 25°C, CPS)		500
Flash Point, Closed cup test		110°F
Pot Life, 70°F, 50% RH		45 minutes
Working time on floor, 70°F, 50% RH		10 minutes
Recoat Window		<24 hours
Drying Properties, 70°F, 50% RH 60°F, 30% RH 80°F, 70% RH		8 hours tack free, 12 hours dry 12 hours tack free, 18 hours dry 4 hours tack free, 6 hours dry
Full Chemical Resistance		7 days