

## ARMOR-STAT ESD TOPCOAT

### DESCRIPTION

ARMOR-STAT ESD Topcoat is a three or four component aliphatic urethane protective coating providing an electrostatic dissipative ( $10^6$ - $10^9$   $\Omega$ /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 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
- Light Stable
- Excellent Abrasion Resistance, 3 to 4 times better than other urethanes; 9 times better than epoxies
- 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 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 120 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 kits only.

### 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. 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 tray or 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.

# ARMOR-STAT ESD TOPCOAT

## TECHNICAL INFORMATION

VOC in g/L	57 g/L
% Solids by Weight	69%
Tensile Strength, psi, ASTM D 2370	7,000
Hardness ASTM D 3363	>4H
Taber Abrasion Resistance A&B ASTM D 4060, 1000g load, 1000 cycles, CS-17 wheel after full cure	<u>Satin finish</u> with grit – 5 mg. loss no grit – 25 mg. loss
Adhesion ASTM D 4541	Substrate Failure
UV Resistance	Excellent
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% R.H.	45 minutes
Working time on Floor, 70°F, 50% R.H.	10 minutes
Recoat Window	< 24 hours
Drying properties, 70°F, 50% R.H. 60°F, 30% R.H. 80°F, 70% R.H.	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

### 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 at [www.dur-a-flex.com](http://www.dur-a-flex.com)

### 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.**