



## ARMOR TOP

### DESCRIPTION

ARMOR TOP is a two, three or four component aliphatic urethane protective coating. It was formulated for high traffic areas to protect against chemicals and wear. It is available in either a clear or pigmented, gloss or satin finish, and with or without high wear resistant aluminum oxide (grit).

### BENEFITS

- VOC- 0 g/L clear (<100 g/L pigmented)
- Low Odor
- Light Stable
- Excellent Abrasion Resistance, 3 to 4 times better than other urethanes; 9 times better than epoxies
- Excellent Chemical Resistance

### TYPICAL USES

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

### COLORS

ARMOR-TOP is available clear or in 15 standard colors. Please refer to the Standard Color Chart on our website. Custom colors are available upon request.

### LIMITATIONS

Do not drip and leave excess material on the floor as this could lead to blistering. ARMOR TOP 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%. Do not apply ARMOR TOP over epoxies cured with FAST hardener. ARMOR TOP should be pigmented when applied over pigmented systems. Dry Time is slower when Relative Humidity is less than 30%. For vertical applications, two coats are required – the second coat must be applied within 24 hours of the first. Do not apply Armor Top clear with Armor Top grit on a smooth floor (like Dur-A-Gard, ReFLEXions, etc.) as roller lines may be visible.

For applications where humidity is less than 30% use ARMOR TOP LH. This is available in gloss finish only. Tack-free time is approximately 6 hours. All other data remains the same as standard ARMOR TOP gloss.

**When recoating Armor-Top 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. Apply DUR-A-GLAZE #4 (use Regular or Water-Clear Hardener ONLY) with SUPER-STICK as a binder primer for succeeding coat. At 60°F the**

**primer must cure for a minimum of 12 - 16 hours (depending on hardener used). Please refer to the SUPER-STICK Product Data Sheet on our website for complete application instructions.**

### APPLICATION INSTRUCTIONS

**NOTE:** DUR-A-GLAZE #4 Reg. Hardener/Water Clear with DUR-A-GLAZE #4 Resin/SHOP FLOOR or DUR-A-GARD Regular with DUR-A-GARD Resin should be used as the undercoat for this system. ARMOR TOP is typically applied using the dip and roll method with a 18" long 3/8" nap roller with a Wide Boy™ or Big Ben™ frame. Applicators should wear spiked shoes (cross roll). DUR-A-FLEX, Inc. recommends Big Ben™ roller frames when using white or light colors.

1. Pour ARMOR TOP hardener into a 2 gallon bucket. If color is desired, add ARMOR TOP Colorant; mix for 30 seconds. Add ARMOR TOP resin and mix for 30 seconds. If specified, slowly add ARMOR TOP Grit and continue mixing for an additional minute. Pour a small amount into a dip and roll tray that is large enough to accommodate an 18 inch roller.

2. Dip roller cover into paint tray and roll off excess. Apply two 8-10 foot long paths left to right then right to left. Re-wet roller and continue application. Even out roller lines by using W shaped crosses and/or up & down passes. If not even, re-roll up and down until uniform. A final cross-roll is necessary to even out roller lines and should be completed within 10 minutes.

3. Occasionally remix ARMOR TOP in tray or bucket with a stick to prevent settling of the grit/powder.

4. For line striping applications use Dur-a-Gard Bright Yellow with Superstick. Topcoat with Armor Top Bright Yellow.

### KIT SPREAD RATES

	<u>Standard</u>	<u>LH</u>
Gloss Clear (w/grit)	575 SF/kit	650 SF/kit
Gloss Clear (no grit)	550 SF/kit	625 SF/kit
Gloss Pigmented (w/grit)	700 SF/kit	775 SF/kit
Gloss Pigmented (no grit)	675 SF/kit	750 SF/kit

### Standard

Satin Clear (w/grit)	775 SF/kit
Satin Clear (no grit)	750 SF/kit
Satin Pigmented (w/grit)	850 SF/kit
Satin Pigmented (no grit)	825 SF/kit

NOTE: Armor Top is sold in kits only. Spread rates vary due to differences in gloss and satin kit sizes.

# ARMOR-TOP

## TECHNICAL INFORMATION

VOC in g/L	0 - clear <100 pigmented	
% Solids by Weight	95.2	
% Solids by Volume	92.5	
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 – 8 mg. loss no grit – 12 mg. loss	<u>Gloss finish</u> with grit - 4 mg. loss no grit - 10 mg. loss
Adhesion ASTM D 4541	Substrate Failure	
UV Resistance	Excellent	
Coefficient of Friction ASTM D 2047	>0.60	
60° Gloss ASTM D 523	Satin: 50 +/-10 Gloss: 75 +/-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.	Armor Top Satin: 10 minutes Armor Top Gloss: 10 minutes	
Recoat Window	< 24 hours	
Tack Free Time (hrs.)	Armor Top Satin	Armor Top Gloss
90°F, 80% R.H.	1 hour	1-3/4 hours
90°F, 50% R.H.	2 hours	3-1/2 hours
90°F, 35% R.H.	4 hours	5 hours
75°F, 80% R.H.	1 hour	2 hours
75°F, 50% R.H.	3 hours	4 hours
75°F, 35% R.H.	5 hours	6 hours
60°F, 80% R.H.	2 hours	2-1/4 hours
60°F, 50% R.H.	3 hours	4 hours
60°F, 35% R.H.	6 hours	7 hours
Return to Service	24 hours	
Full Chemical Resistance	7 days	

### MOISTURE CONCERNS

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

### JOINT GUIDELINES

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

### PACKAGING

ARMOR TOP is available in kits only.

### 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 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.**