

**5500 HSL (100% SOLIDS)**

**Description:** 100% Solids Polyaspartic Aliphatic Roll-Down Coating Specifically Formulated for High Humidity Conditions

5500 HSL is a 100% solids aliphatic, two component coating product formulated for warm, humid conditions in order to address the high humidity short time that polyaspartic products are facing. The 5500 HSL 100% solids is formulated to work with the high heat and humidity to allow for more working time while still providing the excellent results as found in the 5500 product systems.

The polymer structure is very clear and may be pigmented, is non-yellowing, very tough, excellent color retention, good chemical resistance with excellent adhesive properties. 5500 HSL 100% solids is a reactive two component system highly resistant to staining and marking.

The 5500 systems are "roll-down" Polyurea/Aspartic products that are a clear finish coat with good elongation and flexibility. The 5500 systems do not become brittle as other aspartic products and are completely Aliphatic or UV resistant with excellent color stability. The 5500 aliphatic products systems conform to the requirements of the USDA for incidental food contact and are formulated to be non-color changing, abrasive resistant, non-brittle, flexible, quick set with impact resistance.

**Unique Characteristics:**

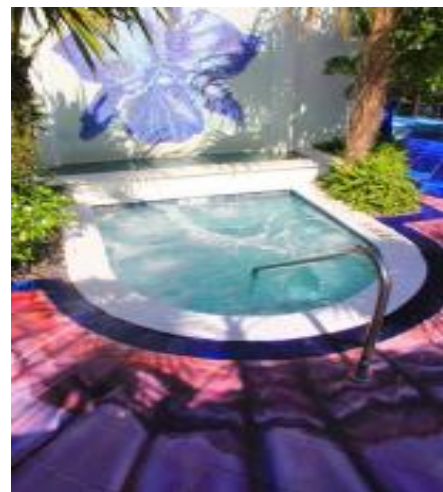
5500 HSL 100% solids is a unique Aliphatic Polyurea/Aspartic that has extended working time allowing for easier applications in areas where the faster version would not be appropriate or would set too quickly.

**Advantages:**



- HSL FOR HIGH HUMIDITY – MORE WORK TIME
- ALIPHATIC POLYUREA/ASPARTIC DOES NOT CHALK OR YELLOW
- CURES TO A VERY CLEAR FINISH
- HIGH STAIN RESISTANCE TO MOST TIRES
- EXCELLENT UV RESISTANCE
- SETS QUICKLY
- GOOD WORKING TIME
- CHEMICAL RESISTANT
- EXCELLENT ABRASIVE RESISTANCE
- HIGHLY ADHESIVE
- WATERPROOFING ELASTOMERIC SYSTEMS
- GOOD ELONGATION
- QUICK "TURN-AROUND" FLOOR APPLICATIONS
- COLOR CHIP FLOORS & COLOR QUARTZ FLOORS

**Use:**


- DECORATIVE FLOOR FINISHES
- INDUSTRIAL FLOOR COATING
- KITCHEN FLOOR SEALING & FINISHING
- WATER FEATURE APPLICATIONS
- CLEAR TOP COAT FOR COLOR CHIPS & COLORED QUARTZ
- SLABS, STAIRS & PEDESTRIAN WALKWAYS, DECKS, WOOD STRUCTURES, INDUSTRIAL WALL & FLOOR APPLICATIONS, EXTERIOR APPLICATIONS



5500 HSL 100% solids applied over art in warm humid areas

General Physical Characteristics			Preparation:	
Solids	100%		Concrete must have a minimum 28-day cure prior to application. Remove any curing agent, form release materials, oils, wax, moisture or any material that may affect bonding. Clean and wash to remove contaminants and maintain pH 8.0-11.0. **Provide rough profile minimum 2 mils. Review ASTM D4259 "Abrading Concrete" and ASTM F1869 Measuring Moisture Vapor Emission. Note: High Tensile, see 5500 EX data sheets.	
Shelf Life	1 year stored indoors 55°F-85°F dry location			
Potlife @ 70°F	≈ 35-45 Min.			
Hardness ASTM D2240	Shore D 60			
Mix Ratio	1A:2B			
Tack Free ASTM D2471	≈ 4 hrs.			
Tensile ASTM D412	>4000 psi			
Tear Strength D470	850 lbs./in.			
Abrasion (CS17) ASTMD4060-90	4.0mg/1000/500 cycles			
Gel Time (surface applied)	>30 min @ 75°F			
Permeability ASTM E96 (WVT)	0.053grms/hr/sqft			
Elongation ASTM D638	12%			
Processing Temperature	70°F			
Viscosity @ 25°C cps	450+/-50			
UV Resistant	High			
Compressive Strength; 8 hrs. -7300 psi, 24 hrs. -11,200 psi, 7 days -14,100 to 19,000 psi			<b>Priming:</b> 5500 is self-priming. For concrete that requires a primer use ASTC's Pen Prime, see data sheet.	
<b>Chemical Resistance 5500 Systems</b>				
Chemical	24 hrs.	7 days		  
10% Acetic Acid	+	- yellowing		
100% Ethanol 200 proof	+	+		
50% Sulfuric Acid	+	+		
38% Hydrochloric Acid	+	+		
10% NaCl	+	+		
28% Ammonia	+	+		
85% Lactic Acid	+	- down gloss		
5% to 10% Clorox Bleach	+	+		
Citrus Cleaning Solvent	+	-Slight blisters		
Skydrol PE-5	+	+		
Power Steering Fluid	+	+		
Transmission Fluid Dextron	+	+		
Motor Oil	+	+		
Brake Fluid	+	-slight blisters		
Unleaded Gasoline	+	+		
Mek	-	-		
Xylene	-	--		
Tap Water, Coffee, Cola, Grape Juice, Ketchup	+	+		
Mustard Yellowing	-	-transient		
				<b>Moisture Vapor Reduction:</b> Use ASTC's CMW to reduce moisture vapor drive. Efflorescence or white powder-like material visible on the concrete slab indicates moisture vapor drive. See CMW data for efflorescence treatment. Damp conditions prime using ASTC's 6007 W/C product.



+ Positive Results,	- Negative Results	
<p><b>Adding Pigment:</b> Use 12 to 14 ounces for the pigment provided by ASTC. Do not use other pigments as they are not formulated with the proper base materials that are compatible with the 5500 products. Do not overload the 5500 with pigment, use the minimum amount of pigment for the desired effect. When adding pigment to the mix of 5500 as a base coat is it helpful to add about 3-4 ounces of Xylene per mixed gallon of product and pigment mix. The addition of the solvent helps with dispersion of the pigment and with penetration into the substrate.</p>		<p><b>Cold Temperatures:</b> When environmental conditions are cool or cold and the ambient temperature is about 40° F, use the faster 5500 systems.</p>
<p><b>Colors:</b> Tan, Wheat/Straw, Pearl Gray, Fog Gray, Medium Gray, and Black. White is also available for adding to the above colors as desired.</p>		
<p><b>Mixing:</b> 2 parts B to 1 part A. Mix with low-speed drill and Jiffy blade for three minutes until uniform. Do not mix more material that can be applied in 10-15 minutes as material will stiffen.</p>		
<p><b>Application:</b> Application range: 45°F to 90°F. Apply the product using a notched squeegee or similar squeegee to move the product over the application area. *Hot surfaces may accelerate gel time of the product. *High Humidity will accelerate the gel time of the 5500 product systems. Product should be back-rolled using a short nap roller, about ¼" to 3/8". **Apply in films from 5,8 or 10 mils per coat. Recoat Time: apply a second coat as soon as the first coat can be walked on, 1 to 2 hours. If recoat window is exceeded, sand lightly to produce a profile, wipe with acetone and re-coat.</p>		<p><b>Limitations:</b> Note: The product is resistant to most tires, however, there are some tires that may stain the coating. Not all tires and their characteristics can be tested for staining. If moisture vapor drive is evident or efflorescence is visible use a vapor barrier CMW. Use compatible surface repair products with 5500. Pot life is affected by environmental temperatures and humidity. Do not use on wet surfaces or expose part A to moisture. Keep out of direct sunlight and store the product kits on wood pallets at room temperature. Use a Nitrogen blanket over unused product for proper storage and protection from humidity.</p>
<p><b>Curing Time:</b> Approximately 4-8 hours for low foot traffic volume. Cure 24-48 hours for heavier foot traffic. Test surface cure to be sure surface is ready for vehicles before allowing access. Cure is affected by environmental conditions &amp; high humidity. Do not use 5500 HSL 100% Solids in environments that are cool with low humidity, long extended cure times will alternate result.</p>		<p>This product is for use by professional applicators only. Wear Protective Clothing and gloves as the product bonds very well to fabrics. Read MSDS before using this product. DOT/Flash Point – Non-flammable Liquid Classification, not regulated. Warranty: See ASTC Warranty data sheet. (2-17) Product data sheets subject to change without notice. © 2021 ASTC Global, Inc .</p>



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