

GLASS COAT (100% SOLIDS)

Description: 100% Solids Polyaspartic; Ultra-Slow Blend.

GLASS COAT is a 100% solids aliphatic, two component coating formulated for superior working time even in high humidity or hot temperatures, while still providing the excellent results found in all of our ADVANCED POLYASPARTICS. The polymer structure of GLASS COAT is clear and may be pigmented with solid color, or metallic pigments. Known for its UV stability, GLASS COAT is chosen as a non-ambering topcoat and for non-yellowing white metallic floors. White floors stay white with GLASS COAT.

Also known for its toughness, GLASS COAT is extremely durable with good chemical resistance, high resistance to staining and marking, and has excellent adhesion properties. ADVANCED POLYASPARTICS conforms to USDA requirements for incidental food contact. GLASS COAT is formulated to be non-color changing, abrasive resistant, impact resistance, non-brittle, and flexible.

Unique Characteristics:

Glass Coat 100% solids is a unique polyaspartic formula that has extended working time allowing for easier applications when applying solid color floors and designer metallic systems. The new Gen 2 formula is self leveling, has great flow rates, and eliminates orange peel giving it a glass-like look (Best results are achieved within 20 minutes of application)



Advantages:

- 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

General Physical Characteristics			Preparation:	
Solids	100%		<p>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 Poly data sheets.</p> <p>Priming: Poly is self-priming. For concrete that requires a primer use Advanced Resins's Pen Prime, see data sheet.</p>	
Shelf Life	1 year stored indoors 55°F-85°F dry location			
Potlife @ 70°F	≈ 45-55 Min.			
Hardness ASTM D2240	Shore D 60			
Mix Ratio	1A:2B			
Tack Free ASTM D2471	≈ 6-8 hours			
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				
Chemical Resistance Poly Systems			<p>Moisture Vapor Reduction: Use Advanced Resins'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 Advanced Resins's 6007 W/C product.</p>	
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		

+ Positive Results,	- Negative Results	
<p>Adding Pigment:</p> <p>Metallic pigments: 12-16 oz of metallic pigment provided by Advanced Resins per 3 gallons pigment Resins. Do not use other pigments as they are not formulated with the proper base materials that are compatible with the Poly products. Do not overload the Poly with pigment.</p> <p>Solid color: 16 oz - 20 oz of solid color pigments provided by Advanced Resin per 3 gallon</p>		<p>Cold Temperatures: When environmental conditions are cool or cold and the ambient temperature is about 40° F, use the faster Poly systems.</p>  
<p>Colors:</p> <p>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>Mixing:</p> <p>2 Part B to 1 Part A. Mix with a drill and appropriate mixing paddle to create a good vortex without entrapping air into the material. Mix for 1 1/2 - 2 minutes until uniform. Do not mix more material than can be applied within 10-15 minutes. DO NOT ADD SOLVENTS or material will cure soft and spongy.</p>		
<p>Application:</p> <p>Metallic: Product is poured out and applied quickly with a T bar and/or 9" to 18" foam rollers. Product should be applied at 30-50 sqft per gallon. For best results, mixing and pouring out designs needs to be done in a timely fashion with a trained and experienced team. A wet edge must be kept for each section, allowing no more than 15-17 minutes per section. Measure out sections according to what can be completed in that timeframe. Failing to apply GLASS COAT in a timely manner can result in loss of self-leveling capabilities, resulting in a wavy surface, potential product voids, and/or orange peel.</p> <p>Solid Color: Product is poured out and spread using a flat or notched squeegee, and backrolled using a 3/8" nap roller. Product should be applied between 100-150 sqft per gallon.</p> <p>Topcoat: Product is poured out and spread using a notched squeegee, and backrolled using a 3/8" nap roller. Product should be applied between 80-90 sqft per gallon</p>		<p>Limitations:</p> <p>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 Poly. 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>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 Advanced Resins Warranty data sheet. (2-17) Product data sheets subject to change without notice. © 2021 Advanced Resins Global, Inc .</p>
<p>Curing Time:</p> <p>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 & high humidity. Do not use Glass Coat 100% Solids in environments that are cool with low humidity, long extended cure times will alternate result.</p>		



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