

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

PolyGlow® 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. **PolyGlow® 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 **ResinForce®** 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. **PolyGlow® 100% Solids** is a reactive two component system highly resistant to staining and marking. The Polyaspartic systems are “roll-down” Polyurea/Aspartic products that are a clear finish coat with good elongation and flexibility. The Polyaspartic systems do not become brittle as other aspartic products and are completely Aliphatic or UV resistant with excellent color stability. The **EasyPoly®** 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:

PolyGlow® 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 to quickly.

ADVANTAGES

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	CHEMICAL RESISTANT
EXCELLENT ABRASIVE RESISTANCE	GOOD ELONGATION
WATERPROOFING ELASTOMERIC SYSTEMS	QUICK “TURN-AROUND” FLOOR APPLICATIONS
COLOR CHIP FLOORS & COLOR QUARTZ FLOORS	

USES

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

SURFACE PREPARATION:

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.

PRIMING: **PolyGlow®** is self-priming. For concrete that requires a primer use **ResinForce® MVB**, see data sheet.

MOISTURE VAPOR REDUCTION:

Use **ResinForce® MVB** 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.

ADDING PIGMENT:

Use 12 to 16 ounces of powder pigment provided by **ResinForce®**. Do not use other pigments as they are not formulated with the proper base materials that are compatible with the Polyaspartic products. Do not overload the **PolyGlow®** with pigment, use the minimum amount of pigment for the desired effect. When adding pigment to the mix of **PolyGlow®** 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.

COLORS: See Color Charts.

MIXING:

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.

GENERAL PHYSICAL CHARACTERISTICS PREPARATION:	
Solids	100%
Shelf Life	1 year store 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

CHEMICAL RESISTANCE POLYASPARTIC SYSTEMS:		
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		

APPLICATION:

Application range 45° - 90°F. Over a pigmented base, apply 50-200 ft² per gallon. Spread product using a squeegee or roller over the application area. Hot surfaces may accelerate gel time of the product. If applying multiple thin coats, at 5-10 mils per coat, apply the second coat as soon as the first coat can be walked on; 1-2 hours. If recoat window is exceeded, sand to 100% abrasion, wipe with acetone, and recoat.

CURING TIME:

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 material thickness, environmental conditions & high humidity. Do not use **PolyGlow® 100% Solids** in environments that are cool with low humidity, longer extended cure times will result.

LIMITATIONS:

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. Use compatible surface repair products with **PolyGlow®**. Pot life is affected by material thickness, 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. 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. Product data sheets subject to change without notice.

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