

POLYKOAT GL-100

PRODUCT CODE: 005-PK100

Two-Component Polyaspartic Aliphatic Polyurea Nanotechnology

PRODUCT DESCRIPTION

PolyKoat GL-100 is a new, stand above all, two-component Polyaspartic Aliphatic Polyurea utilizing innovative proprietary Nanotechnology. It is UV stable and provides a high gloss clear coating. It's extremely quick curing time provides unmatched labor saving capabilities above epoxies and polyurethanes. PolyKoat GL-100 can be used for most types of interior and exterior applications over properly prepared surfaces. It's superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. PolyKoat GL-100 yields chemical splash and spill resistance and hot tire pick-up resistance much like it's epoxy counterpart. PolyKoat GL-100 can be used easily in conjunction with quartz, chip, and rubberized aggregate systems.

BENEFITS/FEATURES

- ◆ Provides ultimate abrasion, impact and wear resistance far exceeding many other applications.
 - ◆ Entire application, in most cases, can be accomplished in just one day.
 - ◆ It's excellent penetrating and bonding capabilities provide many years of durability.
- ◆ Highly economical considering the days of labor that can be saved by using a one day application.

RECOMMENDED APPLICATIONS

PolyKoat GL-100 is recommended for use on garage floors, patios, walkways, driveways, pool decks, concrete countertops, etc. where a UV stable, high gloss chemically cured coating is recommended.

TECHNICAL INFORMATION

Solids.....	100%	Wet Appearance.....	Clear
Pot Life.....	10-15 minutes	Dry Appearance.....	Clear and Very High Gloss
Re-Coat Time.....	2-3 hours	VOC Content.....	<0 g/l
Foot Traffic.....	3-4 hours	Blush Resistance.....	Excellent
Wheel Traffic.....	24 hours (recommended)	Solvent Resistance.....	Excellent
Application Temp.....	40°F - 85°F	Concrete Adhesion.....	Excellent
Mix Ratio.....	3 Parts A : 2 Parts B		

***Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

PROPERTY PROFILE

Tensile Strength: ASTM D 638: 4,500 to 5,000 psi	Falling Sand Abrasion Resistance ASTM D 968:
Mandrel Bend ASTM D 522: Passes, no cracking, 1/8" mandrel bend	Clear...30 liters sand/ 1 dry mil

APPROXIMATE COVERAGE RATES

Theoretical Coverage @ 100% Solids (Volume) per gallon
 DFT.....1,091 ft. @ 1 mils
 Average applied coverage is 250-400 square feet per gallon.

SHELF LIFE

PolyKoat GL-100 has a shelf life of up to 12 months in it's original, sealed, unopened containers.

PACKAGING

PolyKoat GL-100 is packaged in five quart, five gallon, and 25 gallon kits.

SURFKOAT™

SURFACE KOATINGS, INC.

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EPOXIES, URETHANES, ETC.

POLYKOAT GL-100

INSTRUCTIONS FOR USE

SURFACE PREPARATION: The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding method should be performed to an approximate 50-100 grit profile to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732. If mechanical means of preparation are not suitable, it is recommended to prepare the surface with a muriatic acid solution of 1 pt. acid to 4 pts. water. Note, if using Surf-Prep as preparation method, the final rinse should contain a neutralizing agent such as ammonia or baking soda and water.

MIXING: Proper mixing is pertinent to application success. In exact parts (3:2), mix Part A and Part B using a clean, dry working pot (mixing container). Stir contents approximately 30-60 seconds. Avoid over-mixing or creating a vortex which could introduce moisture content to the mixture. No induction time is required prior to use, nor after mixing. If integrating anti-skid media agents, only do so after Parts A & B have been thoroughly mixed.

POT LIFE: Expected workable pot life after mixing Part A and Part B is approximately 10-15 minutes at a common temperature range of 70° F -80° F at roughly 50% relative humidity. Please note that higher temperatures and high percentages of humidity will shorten pot life, as colder temperatures and lower percentages of humidity will extend the coatings pot life.

APPLICATION INSTRUCTIONS: Application of **PolyKoat GL-100** should be completed using a 3/8" synthetic nap, phenolic core roller, or a lambs wool cover for pigmented, stained floors, or media coats. Use a foam squeegee and back roll with the roller over media floors (quartz or chips). It is recommended to use only 18" wide squeegees and rollers. If considering using airless application method, consult the manufacturer prior to application. Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

CLEAN-UP

Use Xylene. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL

Dried, cured polyaspartic may be removed by using a diamond grinding method, sandblasting method or similar mechanical action. Paint strippers will not remove this product when cured.

PRECAUTIONS AND LIMITATIONS

- ▶ **PolyKoat GL-100** will not freeze during storage, however, allow temperature to rise to 50 degrees F prior to application.
- ▶ All HVAC ventilation ducts should be somehow blocked prior to application so solvents fumes are not distributed.
- ▶ Keep away from open flames. **PolyKoat GL-100** is flammable and is susceptible to ignition.
- ▶ It is not recommended to apply **PolyKoat GL-100** any floor without recommended preparation.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ **PolyKoat GL-100** was designed for interior applications only. Exterior applications may not provide adequate adhesion.
- ▶ Please be aware that this product when cured may be slippery when wet.
- ▶ **PolyKoat GL-100** has resistance to many chemicals, however testing chemical resistance is always recommended.
- ▶ It is not recommended to thin **PolyKoat GL-100**. It is a two component system which must be blended exact to specifications.
- ▶ **PolyKoat GL-100** may darken the surface of many new and existing concrete slabs. Test prior to use.

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 615-323-9461.

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