CPR MATERIALS

TECHNICAL DATA SHEET

POLYKOAT GL 85
LOW ODOR XTRA SLOW

Polyaspartic 85% solids

PolyKoat GL 85 LOW ODOR XTRA SLOW is an ultra-low odor polyaspartic polyurea, ideal for environments where extended work time and minimal odor are essential. It uses a unique blend of low-odor solvents to create a versatile coating with low viscosity, extended pot life, excellent workability, and quick return to service. It provides a high-gloss, clear finish with superior penetration and bonding strength, offering long-lasting resistance to abrasion, impact, and wear.

85% SOLIDS LOW VISCOSITY, LONG POT LIFE POLYASPARTIC POLYUREA

APPLICATIONS

- Garages
- Auto Service Centers
- Laboratories
- Cafeterías
- Many other interior concrete floors where a low odor, fast curing, high performance coating is necessary.

ADVANTAGES

- Slow cure, super low odor formula provides a pleasant work environment for contractors, clients and neighbors.
- Long pot lite and quick return to services provides comfort and labor cost savings for contractors.
- UV stability allows this to be used in areas saturated by the sun throughout the day.
- Excellent for use in the DecoFlakes System.
- Can be tinted for solid color applications with CPR Colour Coat Polypack ™.
- VOC compliant for all areas in the United States and Canada.

PHYSICAL PROPERTIES	
Solids/Active Content, Percentage by Weight	85% +/- 1%
Pot Life	45 minutes
Working Time	20 - 25 minutes
Dry Time - Tack Free	4 - 5 hours
Dry Time - Foot Traffic	8 - 10 hours
Dry Time - Heavy Traffic	48 - 72 hours
Re-Coat Time Window	6 - 20 hours
Application Temperature	50º F - 80º F
VOC Content (Volatile Organic Compounds)	Less than 50 grams/liter (mixed A&B)
Appearance - Dry	Transparent and high gloss
Tensile Strength (ASTM D-638)	4,500 to 5,000 psi
Flexibility, 1/8" Mandrel (ASTM D1737)	Pass
Abrasion Resistance (ASTM D-968)	15-17 mg of loss
Hardness (7 days)	5H - 6H
Heat Resistance	300° F
Water Resistance	Excellent
Gloss 60°	92

Specifications / Compliances • Dried coating is USDA accepted • Meets OTC, CARB & LADCO voc restrictions.

Available in:

2 Gallon Kits

10 Gallon Kits

Shelf Life

1 year in original unopened container.

Storage Conditions Store material between 50°F and 80°F.

Allow 7 - 14 days far product to fully cure to reach full abrasion and chemical resistance properties.

SDS

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(656)-215-1000

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(915)-241-7909

ventas@cprmaterials.com
sales@cprmaterials.com

Moisture Test:

Concrete floors, especially those without a proper vapor barrier, may experience moisture vapor transmission, causing bubbling or coating failure. To test for moisture, place a 4' x 4' plastic sheet on the surface and tape down all edges. After 24 hours, if the concrete remains dry underneath, it is ready for coating. If moisture is present, conduct calcium chloride and relative humidity probe tests to assess vapor emission levels before proceeding.

Surface Preparation:

Ensure the concrete is structurally sound, clean, and dry. Concrete must cure for at least 28 days. Mechanically prepare the surface with shot blasting or diamond grinding (30 grit or coarser) to achieve a CSP-2 to CSP-3 profile. Vacuum thoroughly to remove dust. For previously coated surfaces outside the recoat window, sand with 60-120 grit until the surface is dulled. Rinse with clean water, remove excess moisture, and let dry completely. Wipe the surface with acetone using a microfiber mop if necessary.

⚠ **Caution:** Acetone is highly flammable. Follow safety precautions and avoid pilot lights, flames, sparks, and heat sources.

Substrate, Air, and Material Temperatures:

Maintain temperatures between 50°F and 80°F. Application outside these limits may cause inadequate film formation, air entrapment, bubbles, and hazing. High temperatures and humidity may accelerate curing, while cooler conditions may slow it down.

Personal Protection:

Wear gloves, goggles, and respirators. Refer to the SDS before use.

Pigmentation:

Use Kolour Koat Polypack (refer to TDS before use). Add 9-16 oz. per gallon for a solid, opaque finish. Always add color to Part A and mix for 2-3 minutes before blending with Part B. Test for color acceptance before full application. Multiple coats may be necessary for complete opacity.

Mixing Instructions:

If mixing less than a full kit, mix Part A and Part B separately using a stir stick, low-speed mixer, or by shaking the containers vigorously. Blend equal parts of A and B in a clean container and mix with a drill for 2-3 minutes. Avoid creating a vortex that could introduce air or moisture. Mix only the amount that can be applied within the pot life. ⚠ Do not thin!

Coverage Rates:

- **First Coat - Direct to Concrete:** 200 - 300 ft² per gallon*
- **Second Coat - Over Existing Coating:** 250 - 350 ft² per gallon*
- **Over Media Broadcast Systems:** 175 - 225 ft² per gallon*
- *Coverage may vary based on surface porosity, texture, application method, and prior coating. Avoid excessive build-up.

AApplication Over Smooth Surfaces:

- Use a brush and/or 3/8" nap shedless roller.
- Dip and roll the material from a roller pan. Use 18" rollers for faster application and fewer roller marks.
- Apply in 4' x 4' sections. Roll diagonally and back-roll immediately to level out the material.
- Keep a wet edge to avoid roller marks. Discard material if it thickens during application.
- Avoid puddling. Use a brush to remove excess coating in joints.
- Airless or HVLP sprayers may also be used.

Over Chip System Surfaces:

- Pour mixed material directly over the flake and spread with a flat, flexible squeegee.
- Back-roll using a 3/8" nap, shed-free roller. Maintain a wet edge and avoid puddling.
- Apply at 175 - 225 sq. ft. per gallon.

Recoating:

- Recoat within the suggested window on page 1. Higher temperatures and humidity may shorten the recoat window.
- For recoating beyond 24 hours, sand with 60-120 grit for adequate adhesion.
- Vacuum, rinse, and dry thoroughly before reapplication.
- For textured broadcast systems outside the recoat window, use a Malish Mal-Grit for surface preparation.
- Wipe with acetone if needed, ensuring proper safety measures. ⚠ Acetone is highly flammable!

Important Note:

- Applying material outside recommended parameters may result in product failure.
- Test on a small area before full application.
- Follow suggested coverage rates. Applying too thin or too thick may result in inadequate performance, bubbling, or hazing.
- ❌ Do not use on brick.

Coefficient of Friction (COF) Warning:

- OSHA and ADA standards require a minimum COF of 0.6 for flat surfaces and 0.8 for ramps.
- Use slip-resistant aggregates in coatings for areas exposed to wet, oily, or greasy conditions.
- CPR Materials, Inc. is not responsible for slip and fall accidents.
- For interior foot traffic areas, Cherry Surf-Wax may be used as a compliant slip-resistant coating meeting ASTM D2047 standards.

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- ❗ Avoid heavy application or puddling as it may cause bubbling or failure. Follow recommended coverage rates.
- 🌡️ Product will not freeze, but allow temperatures to rise to 50°F before application.
- 🚫 Block HVAC ventilation ducts to prevent the spread of solvent fumes.
- 🏠 When applying indoors, ensure proper ventilation during and after application to remove fumes.
- 🚫 Do not apply over carpet, tile, or other floor adhesives.
- 🔍 Best applied in 1-2 medium-light coats, not in thick coats.
- ⚠️ Be aware that cured product may be slippery when wet. Add Surf-Grip or another anti-slip additive to reduce slip hazards.
- 🕒 New concrete must cure for at least 28 days before application.
- ✖ Do not thin the product. Improper thinning may cause delamination and performance issues.
- 🧪 Product may darken the surface of new and existing concrete. Test on a small area before full application.
- 📋 Physical properties provided are typical values, not specifications.
- 🔥 Warning: Solvent vapors are heavier than air and may travel along the ground or be carried by ventilation, potentially igniting pilot lights, flames, sparks, heaters, smoking, or static discharge.
- 🧼 **Clean-Up:** Use xylene. Dispose of containers according to local, state, and federal regulations.
- 🪜 **Product Removal:** Dried, cured material can be removed using a commercial paint stripper such as Nock-Off or by diamond grinding, sandblasting, or other mechanical methods.
- ⏳ **Shelf Life:** Up to one year from the date of manufacture in its original, unopened container, stored at room temperature.
- 📦 **Packaging:** Available in 2-gallon and 10-gallon kits.
- 📚 **Important:** Always read all technical information, labels, and the Safety Data Sheet (SDS) before use. This information is available online or by calling customer service at the number below.

CHEMICAL RESITANCE	
Urine	R
Xylene	R
MEK	RBC
Isopropyl alcohol	R
Methanol	R
Gasoline	R
Combustible Diesel	R
SkyDrol	R
Engine oil	R
Transmission fluid	R
Brake fluid	R
Hydraulic fluid	R
Water	R
Sugar/Water	R
Chlorinated water	R
Chlorine (10%)	R
Water/Vinegar (5%)	R
Wine	R
Sodium hydroxide 25%	R
Muriatic acid 10%	R
Sulfuric acid 10%	R
Nitric acid 10%	NR
Phosphoric acid 10%	R
Hydrochloric acid 20%	R

CPR Materials, Inc. guarantees that its products are of high quality, free from manufacturing defects, and will conform to published specifications at the time of order acceptance. As the exclusive remedy for any breach of this warranty, CPR Materials will replace defective materials.

After 90 days from the date of shipment, all warranties and obligations regarding the quality of the materials will be considered satisfied, and no claims will be accepted thereafter. CPR Materials makes no express or implied warranties regarding the product's lifespan, merchantability, or fitness for a particular purpose.

Liability is strictly limited to the purchase price of the product. Under no circumstances will CPR Materials, Inc. be liable for any consequential damages exceeding the purchase price of the product.