

TECHNICAL DATA SHEET

6100 WB MATTE FINISH URETHANE

POLYURETHANE COATING

CPR 6100

6100 WB Matte Urethane is a high-solids, two-component, water-based aliphatic polyurethane that provides a durable matte finish. It offers exceptional hardness, abrasion resistance, and protection against hot tire marks and chemicals. Additionally, 6100 WB Matte Urethane is a low VOC, low-odor coating suitable for a variety of applications.

APPLICATIONS

 Ideal for multiple interior applications where a low odor, matte finish, and abrasion-resistant coating is required.

PHYSICAL PROPERTIES			
Solids/Active Content, Percentage by weight	56%		
Pot Life	45 minutes		
Dry Time - Tack Free	16 - 18 hours		
Dry Time- Foot Traffic	20 - 24 hours		
Dry Time- Heavy Traffic	4 - 7 days		
Recoat Window	18 - 24 hours		
Application Temperature	50° F - 80° F		
VOC (Volatile Organic Compund) Content	Less than 100 grams/liter (A&B mixed)		
Appearance - Dry	Transparent and matte finish		

Mix Ratio:

CPR 6100

2:1

Shelf Life

1 year in original unopened container.

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

Allways refer to SDS & read full tech data sheet and warranty information prior to use

ADVANTAGES

- Low viscosity ensures superior wetting and deep penetration into the substrate.
- Offers exceptional resistance to many common chemicals, solvents, and hot tire pickup.
- Outstanding abrasion resistance comparable to many solvent-based products.
- Matte finish and low odor make it ideal for various indoor applications.
- VOC compliant for most regions in the United States and Canada.





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SDS

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Applications instructions

MOUSTURE TEST

Concrete floors, especially those not poured over a proper vapor barrier (plastic), are susceptible to moisture vapor transmission, which may cause bubbling and/or coating failure. A basic moisture test can be performed by placing a 4' x 4' plastic sheet on the concrete surface and taping down all edges securely.

If, after 24 hours, the concrete remains dry under the plastic, the surface is ready for coating. However, if moisture is detected, the coating applicator should conduct a calcium chloride test and a relative humidity probe test to determine if the vapor emission levels are excessive before applying any coatings.

TINTING

Recommended only as a clear topcoat. Tinting is not advised, as it may cause color inconsistencies or undesirable floating, affecting the final appearance.

MIXING

When mixing less than a full kit, stir Part A and Part B separately using a stir stick, low-speed mixer, or by vigorously shaking the containers before measuring. In a clean mixing container, blend 2 Parts A and 1 Part B with a drill mixer for 2-3 minutes.

- After blending, up to 10% clean water may be added to reduce roller marks or orange peel effects.
- Avoid creating a vortex that may introduce air or moisture into the mixture.
- Do not mix more than what can be applied within the usable pot life.

COVERAGE RATE

- First Coat: Direct to concrete, 200-300 ft² per gallon.
- Second Coat: Over existing coating, 250-350 ft² per gallon.
- Coverage rates may vary depending on surface porosity, texture, application method, and previous coating. Avoid excessive buildup.

Highly Flammable Acetone: Avoid open flames, sparks, heat sources, or static electricity. Wear appropriate protective equipment.

If mechanical preparation is insufficient, use a 4:1 water-to-muriatic acid solution, suitable only for bare, unsealed concrete. Apply the solution evenly and keep it wet for 10-15 minutes. Remove excess and rinse with clean water, using CPR Materials' Balance to neutralize the pH. Inspect the surface and repeat if necessary.

- Application Conditions:
- Temperature: 50°F 80°F.
- Drying Time: 24-72 hours before coating application.
- High temperatures and humidity accelerate curing, while cooler temperatures slow it down





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APPLICATION INSTRUCTIONS

Apply the mixed material using a brush and/or a 3/8" nap shedless roller, dipping and rolling from a roller pan.

- 18" rollers are recommended to speed up application and reduce roller marks.
- Start by placing the wet roller at one corner of a 4' x 4' square and apply at an angle to the opposite corner without applying pressure.
- Spread the material across the square and immediately back-roll to even out the material and roller lines.
- Adjust the size of the square depending on the amount of material being applied.
- Keep a wet edge to prevent roller marks and work in sections, using control joints as natural dividers.
- Apply the material within the usable pot life. If the material thickens and sticks to the roller, stop and discard the mixture. Do not allow puddling!
- Remove excess coating from joints with a brush. An airless or HVLP sprayer may also be used for application.

APPLICATION RECOMENDATIONS

- Applying the material outside the recommended parameters may lead to product failure. It is always advisable to test the product in a small, inconspicuous area (on the same concrete surface) to verify desired results before full application.
- Coverage rates may vary depending on the porosity, density, and texture of the substrate.
- Follow the recommended coverage rates during application.
- Applying too thin may result in poor film formation, reduced performance, and/or an undesirable finish.
- Applying too thick may cause bubbling, hazing, or other defects.
- DO NOT USE ON BRICK.

RECOAT INSTRUCTIONS

- Whenever possible, recoat within the suggested recoat window listed on page 1. Apply additional coats following the same method as the first coat.
- Higher substrate, air, and material temperatures, along with excessive humidity, may shorten the recoat window.
- When working in high temperatures, recoat as early as possible to prevent adhesion failure between coats.
- If recoating outside the recommended window or after 24 hours, sand the surface with a 60-120 grit sanding screen to ensure proper adhesion.
- Thoroughly vacuum the dust, rinse with clean water, and remove excess water with a wet/dry vacuum or floor scrubber. Allow the surface to dry completely before applying the next coat.
- When applicable, and with proper ventilation, wipe the surface with acetone using a microfiber dust mop.

Safety Standards and Anti-Slip Requirements

- OSHA and the American Disabilities Act (ADA) have established enforceable slip-resistance standards for pedestrian surfaces.
- The required coefficient of friction (COF) is 0.6 for flat surfaces and 0.8 for ramps.
- Surface Koatings, Inc. recommends the use of slip-resistant aggregates in all coatings or flooring systems that may be exposed to wet, oily, or greasy conditions.
- It is the responsibility of the contractor and end users to ensure that the flooring system meets current safety standards.
- ① Surface Koatings, Inc. and its sales agents will not be liable for any injuries caused by slip-and-fall accidents.
- For interior floors subjected to foot traffic only, Cherry Surf-Wax may be used as an acceptable slip-resistant coating as it meets the requirements of ASTM D2047.







Precautions and Limitations

- 🗱 This product may freeze during storage. Store at temperatures above 40°F.
- O Do not apply over carpet, tile, or other types of floor adhesives.
- 🤭 Best performance is achieved by applying one or two medium-light coats, not a heavy coat.
- C All new concrete must be cured for at least 28 days before application.
- \times Do not thin the product. Improper thinning may cause delamination and performance issues.
- This product may darken the surface of new or existing concrete slabs. Test before use.
- 📄 Physical properties listed on this sheet are typical values, not specifications.
- CLEAN-UP: Use MEK or acetone. Dispose of containers according to local, state, and federal regulations.
- I PRODUCT REMOVAL: Dried and cured coating may be removed with a commercial stripper or through diamond grinding, sandblasting, or similar mechanical action.
- Z SHELF LIFE: Up to one year from the manufacture date if stored in its original, unopened container at room temperature.
- **Q** PACKAGING: Available in 3-gallon and 1.5-gallon kits.
- ZPR Materials warrants that its products are of good quality, free from defects, and conform to the published specifications in effect at the date of order acceptance.
- Z Exclusive Remedy: In case of a breach of this warranty, we will replace defective materials.
- Z Warranty Limitation: Ninety days after CPR Materials has shipped the products, all warranties and responsibilities related to the quality of the delivered materials shall be considered satisfied and concluded.
- ① Warranty Limitation: No warranty is expressed or implied regarding the durability, merchantability, or fitness of the product for a specific purpose.
- S Limited Liability: Liability, if any, is limited to the purchase price of the material. Under no circumstances will CPR Materials be liable for consequential damages exceeding the value of the purchased product.

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





