



UL KG 3607

TECHNICAL DATA SHEET

PRODUCT MANUFACTURER

Ultimate Linings
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GENERAL PRODUCT DESCRIPTION

UL KG 3607 is a fast setting, rapid curing, 100% solids, flexible, aliphatic, two component spray polyurea with excellent color and gloss retention, that can be applied to suitably prepared interior or exterior concrete and metal surfaces. Its extremely fast gel time makes it suitable for applications down to -20°F. It may be applied in single or multiple applications without appreciable sagging and is relatively insensitive to moisture and temperature allowing application in most temperatures.

APPLICATION GUIDELINES

Both Part-A and Part-B material should be preconditioned at 80-90°F before application. Recommended surface temperature must be at least 5°F above the dew point. UL KG 3607 should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Reactor, Glass Craft or another equivalent machine may be used. Both Part-A and Part-B materials should be sprayed at a minimum of 2000 psi and at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times. UL KG 3607 should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

MIXING

UL KG 3607 may not be diluted under any circumstances. Thoroughly mix UL KG 3607 Part-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

COVERAGE

UL KG 3607 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

MATERIAL STORAGE

UL KG 3607 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers. Avoid freezing temperatures. UL KG 3607 should be stored between 60°F to 100°F (16°C to 38°C).

Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate Part-A and Part-B drums regularly.

SAFETY AND HANDLING

Please refer to Safety Data Sheets (SDS) for safety and handling of this material. All personnel working with this material are expected to read and understand all safety recommendations per SDS. All Personal Protection Equipment must be properly worn to comply with worker health and safety requirements.

CHEMICAL TECHNICAL DATA

Mix Ratio by Volume	1A:1B
Gel Time	15-20 sec.
Tack Free Time	60 to 90 sec.
Recoat time	0 to 1 hour
Density "A/B" Side (lbs./gal) combined	8.73 lbs./gal

Test Name	Test Method	Value
Elongation	ASTM D412	90 ± 20%
Hardness Shore D	ASTM D2240	60 ± 5
Tear	ASTM D412	450 ± 50 pli
Tensile Strength	ASTM D412	2300 ± 200 psi
Abrasion Resistance	ASTM D1044	<=.5g removal
Accelerated Weathering	xenon, 3600h	1.0 delta E
Chip Resistance	ASTM D3170	Rated 10 No Failures

ADDITIONAL PRODUCT CERTIFICATIONS

- Complies with USFDA Coating Regulations for Incidental-Food-Contact Applications (Keller and Heckman LLP Letter of Opinion)

PACKAGING

10-gallon kit: 5 gallons Part-A (Isocyanate side) and 5 gallons

Part-B (Resin side).

100-gallon kit: 50 gallons Part-A (Isocyanate side) and 50 gallons Part-B (Resin side).

SURFACE PREPARATION

In general, coating performance and adhesion are directly proportional to surface preparation. Most



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failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. Ultimate Linings recognizes the potential for unique substrates from one project to another.

New and Old Concrete:

Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shot blasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, Ultimate Linings Products UL BC 371 or a mixture of UL PM 32 and sand should be used as a repair agent for cracks, spalls, bug holes and voids. Upon full cure of the repair agent, prime the entire surface intended for coating.

Concrete Surface Preparation Reference:

ASTM D4258 - Standard practice for cleaning concrete
 ASTM D4259 - Standard practice for abrading concrete
 ASTM D4260 - Standard practice for etching concrete
 ASTM F1869 - Standard test method for measuring moisture vapor emission rate of concrete
 ICRI 03732 - Concrete surface preparation

Wood:

All wood should be clean, dry and free of any knots, splinters, oil, grease or other contaminants. Splintered or rough areas should be sanded. Knots should be repaired using Ultimate Linings Products UL BC 371 with sand. Upon full cure of the repair agent, prime the entire surface intended for coating.

Steel (Atmospheric and Immersion Exposure):

Remove all oil, grease, weld spatters and round off any sharp edges from surface. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Optimum surface profile is 2-3 mils. Prime and shoot Polyureo® on to any bare metal the same day as it is cleaned to minimize any potential flash rusting.

Aluminum:

Aluminum should be blasted with aluminum oxide or sand, and not with steel or metal grit. Excessive blasting may result in a warped or deformed surface. After blasting, wash aluminum with a commercially available aluminum cleaner. Allow to dry, then prime.

Brass and Copper:

Brass and copper should be blasted with sand, and not with steel or metal grit. Remove all dust and grease prior to applying primer.

Galvanized Surfaces:

Clean and degrease any contaminated surfaces before priming. Do not blast galvanized surfaces with an abrasive grit. An adhesion test is recommended prior to starting the project.

Fiberglass Reinforced Plastic:

The gel coat should be lightly blasted or sanded with 80 grit sandpaper and cleaned.

Plastic Foams:

Enhanced adhesion is obtained when the foam is mechanically abraded. When coating polystyrene, do not use a solvent-based primer.

Textiles, Canvas, Fabrics:

Adhesion to most fabrics, geothermal membranes and textiles does not require a primer.

Stainless Steel:

Stainless steel may be grit blasted and degreased before priming. Some stainless-steel alloys are so inert that it is not possible to achieve a satisfactory bond. An adhesion test is recommended prior to starting the project.

New and Old Cast Iron:

Blast with a steel grit and degrease before priming. Old cast iron is difficult to prepare for a satisfactory bond. It can absorb oil and water-soluble contaminants that will keep returning to the surface after the coating system has been applied and affect the coating system adhesion. An adhesion test is recommended prior to starting the project.

All Other Surfaces:

An adhesion test is recommended prior to starting the project.

PRODUCT DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to



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determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and ULTIMATE LININGS has no claim that these tests or any other tests accurately represent all environments.