



## **UL XP 7992**

### *Developed for Broadcast Aggregate Polyurea Protective Coating Technical Data Sheet*

#### **DESCRIPTION**

**UL XP 7992** is a relatively slow setting, 100% solids, flexible, two component spray polyurea that can be applied to suitably prepared concrete and metal surfaces. Its relatively slow curing makes it suitable for application as a waterproofing decking system with enough open time to broadcast an aggregate. It may be applied in single or multiple applications on horizontal surfaces and is relatively insensitive to moisture and temperature allowing application in most temperatures.

**UL XP 7992** offers a tack free time of eight to fifteen minutes and exhibits 375% elongation upon curing with 90 Shore A hardness.

#### **FEATURES**

- \*Enough open time to broadcast an aggregate
- \*Zero VOC
- \*No Toxic Vapors
- \*Meets USDA Criteria \*100% Solids
- \*Seamless
- \*Low Temperature Flexibility  Non-Reactive
- \*Good Chemical Resistance
- \*Excellent Thermal Stability
- \*Installed With or Without Reinforcement in Transitional Areas
- \*Odorless

#### **TYPICAL USES**

Airports, Parking Garage Decks, Warehouse Floors, Walkways & Balconies, Mining Operations, Food Processing Plants, Landfill Containment, Water and Waste Treatment Systems

#### **COLORS**

Clear/Neutral. Custom colors are available upon request. Color Packs, when used, must be added to Part-B. Due to its aromatic composition, **UL XP 7992** will tend to yellow or darken in color and will become flat after exposure to UV light. **UL XP 7992** may be top coated within twelve hours of application with an aliphatic polyurethane/ polyurea coating for a colorfast finish.

#### **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).

#### **COVERAGE**

**UL XP 7992** may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

#### **SURFACE PREPARATION**

In general, coating performance and adhesion are directly proportional to surface preparation. Most 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. The following information is for general reference, and for project-specific questions, contact Ultimate Linings.

**TECHNICAL DATA**

Mix Ratio by Volume .....	1A : 1B
Gel Time @ 150°F .....	2-4 minutes
Tack Free Time (75 mils) .....	8-15 minutes
Recoat Time .....	0-12 hours
Viscosity at 150-160°F (66.5-71°C), Brookfield:	
Part-A .....	250 ± 75 cps
Part-B .....	40 ± 20 cps
Density (Side A & B Combined) .....	8.75 lbs/gal
Flash Point .....	>200°F
Hardness, ASTM D-2240* .....	90 ± 5 A
Tensile, ASTM D-412* .....	1900 ± 150 psi
Elongation, ASTM D-412* .....	375% ± 25%
Tear, Die "C" ASTM D-624* .....	300 ± 25 pli
Service Temperature .....	-40°F to 250°F
(*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F. Different machine and parameter will change these properties. User should perform their own testing as properties are approximate.)	

**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, 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 UL PC-260 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 UL 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.

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**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.

**MIXING**

**UL XP 7992** may not be diluted under any circumstances. Use appropriate cleaner for purge line and flushing of equipment and if spraying stops for periods exceeding the pot life of the material. Thoroughly mix **UL XP 7992** Part-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

**APPLICATION**

Both Side-A and Side-B materials should be preconditioned to 80-90°F before application. Recommended surface temperature must be at least 5°F above the dew point. **UL XP 7992** should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Reactor, Glass Craft or other 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 XP 7992** should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

**STORAGE**

**UL XP 7992** has a shelf life of six (6) months from date of manufacture, in factory-sealed containers. Part-A and Part-B drums are recommended to be stored above 60°F. Avoid freezing temperatures. 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.

**LIMITATIONS**

Do not open until ready to use.  
Both Part-A and Part-B containers must be fitted with a desiccant device during use.

**WARNING**

This product contains Isocyanates and Curative Material. This product is considered Dangerous Goods. DOT regulations classify it as:

**Part-A: TOXIC LIQUID, organic, N.O.S. (Isophorone Diisocyanate), Class 6.1, UN 2810, PG III, TOXIC**

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Ultimate Linings Products representative or visit our website for recently updated instructions and data.

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