



## UREA-DEK 6460

### SOLVENT-FREE, POLYUREA-POLYURETHANE WATERPROOFING MEMBRANE

#### 1. PRODUCT

UREA-DEK 6460 is a two-component, liquid-applied hybrid polyurea polyurethane designed for use as a mix-in-the-bucket, but yet rapid-curing, monolithic waterproofing membrane.

#### 2. FEATURES

UREA-DEK 6460 has good chemical and water resistance and is often suitable for use in waterproofing assemblies designed for water immersion conditions (with appropriate geotextile reinforcement and cement mortar top coat). The cured membrane possesses the necessary elongation and tensile strength to span hairline substrate cracks.

#### 3. BENEFITS

Solvent Free, Non-Gassing, Rapid Curing  
Easy Application by Squeegee, Trowel or Roller  
Resilient to Expansion and Contraction of Substrate  
High Adhesion, Stress-Relieving, Crack Bridging Membrane  
Provides 100% Contact, Eliminates Migratory Water Problems  
Designed for Demanding Exterior Applications

#### 4. PRODUCT DESCRIPTION

**Composition:** UREA-DEK 6460 is a solvent-free, two-component, liquid-applied, aromatic polyurea-polyurethane containing no coal tar or asphaltic extenders.

**Basic Uses:** UREA-DEK 6460 is designed for use as a rapid curing, high mil thickness, liquid-applied, high solids elastomeric waterproofing membrane for concrete, plywood, or metallic substrates.

#### SUGGESTED APPLICATIONS:

- Rapid-curing Base Membrane on vehicular decks, pedestrian walkways, patios and helipads.
- High performance between slab waterproofing system for podium decks or roof decks.
- Waterproofing under kitchen, laundry, bathroom floors and shower pans.
- Used as a higher hardness underlayment or bedding compound in a multitude of applications.
- Waterproofing as a geotextile fabric reinforced membrane for reflective pools or water features.
- Waterproofing under tile, terrazzo or wood floors.
- Waterproofing protection for subgrade structures and tunnels.
- Secondary containment base membrane around storage tanks.

**Limitations:** Containers that have been opened should be used within several days. Opened pails should be purged with nitrogen prior to resealing lids. UREA-DEK 6460 is not intended for long term exterior exposure without application of a suitable topping or protective layer. When used in an exposed membrane system, an approved UPI Aliphatic Polyurea or Polyurethane top coat should be applied to prevent UV discoloration.

**Shelf Life:** Twelve (12) months when continuously stored in the original metal pails at a temperature less than 80°F. Six (6) months in plastic pails.

#### 5. INSTALLATION

**Surface Preparation:** All surfaces to be coated with UREA-DEK 6460 must be free of all contamination including oil, grease, concrete curing compounds, paint and dirt. New concrete surfaces should be

shotblasted, sandblasted or mechanically scarified to remove laitance surface imperfections and impurities. (High Pressure-wash with water or power vacuum in order to remove all cleaning contaminants). New concrete should be cured for a minimum of 28 days and should have a minimum of 3000 psi compressive strength. The only permissible concrete curing agents (if used) are of the pure sodium silicate type. Other proposed curing agents will require the prior written approval of UPI.

**Priming:** Most application conditions require priming. Use UI-7118 (solvent based) or UI-7050 (solvent free) epoxy primers and allow primer to dry to a firm tacky condition prior to application of the UREA-DEK 6460 membrane. Apply the primers at the rate of 300-350 square feet per mixed gallon.

#### 6. APPLICATION

6.1. Thorough mixing of Part A with Part B is critical to successful application and should be performed with a slow speed power mixer such as a model KOL mixer with a ½ h.p. motor @ 60 rpm or equivalent mixer equipped with a "Jiffy" type mixing blade. Do not mix at high speeds or use an air-entraining paddle mixer.

6.2. The mixed material has an approximate pot life of 15 to 20 minutes at 70°F; higher temperatures will shorten the pot life.

6.3. Hand mix or machine mix Part A for 2 minutes in its separate container. Pour all of Part B into the container of Part A and mix 2-3 minutes, taking care that the sides and bottom of the mixing pail are scraped.

6.4. After mixing, apply the material as desired. It may be applied by notched squeegee, notched trowel or heavy duty roller.

6.5. The thickness of the applied membrane will vary with specific use requirements. However, an average thickness of 60 mils (approximately 1/16 inch) is recommended. Four gallons of the mixed material applied at a thickness of 60 mils should cover an area of 100 square feet (with no allowance for loss or wastage).

6.6. Application should not commence unless the ambient temperature is 40°F or higher and should not proceed during inclement weather.

6.7. UREA-DEK 6460 may also be spray applied using appropriate two-component urethane dispensing equipment (e.g. Grayco, Binks, etc.).

6.8. UREA-DEK 6460 will attain its initial set within 2 to 3 hours however it will remain slightly tacky to the touch.

6.9. If multiple coats of UREA-DEK 6460 are desired and if the first coat is dirty or lost its surface tack solvent wiping is recommended to remove dirt or contamination prior to additional applications. Do not use alcohol or lacquer thinner but an approved urethane-grade solvent such as Xylene. Do not puddle cleaning solvents. Allow the solvent to fully evaporate prior to applying additional coats. Allow prior applications of UREA-DEK 6460 to cure for at least 4 hours, and until firm, before recoating with additional materials.

#### 7. MAINTENANCE

If UREA-DEK 6460 membrane is damaged prior to the placing of the top coat or protective layer, it can be repaired by abrading the surface, wiping with xylene or other suitable solvent and recoating with properly mixed UREA-DEK 6460.

#### 8. TECHNICAL SERVICE

Technical assistance is available by contacting:

**URETHANE POLYMERS INTERNATIONAL, INC.**

10880 Poplar Avenue  
Fontana, California 92337

Phone: 909-357-7200

Fax: 909-357-7215

Email: [info@urethanepolymers.com](mailto:info@urethanepolymers.com)

Sheets (SDS) prior to handling the epoxy primers or the UREA-DEK 6460 Membrane. THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.

#### 10. LIMITED WARRANTY

Urethane Polymers International (UPI) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our

#### 9. PRECAUTIONS

This product contains isocyanates and low viscosity amine chain extenders. Read the container-warning labels carefully. Exposure to Isocyanates may cause allergic skin and respiratory reaction. Personnel applying isocyanate prepolymers should wear protective clothing, goggles and gloves and should use only with adequate ventilation and respiratory protective gear. Avoid contact of material with skin or eyes and avoid breathing vapors. Mix and apply only in well-ventilated areas. Read the appropriate Safety Data

factory. If any UPI materials prove to contain manufacturing defects that substantially affect their performance, UPI will, at its option, replace the materials or refund its purchase price.

This limited warranty is the only warranty extended by UPI with respect to its materials. There are no other warranties, including the implied warranties of merchantability and/or fitness for a particular purpose. UPI

specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of UPI'S liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the UPI material in question.

## 11. PHYSICAL PROPERTIES (TYPICAL)

### UREA-DEK 6460

<i>PROPERTY</i>	<i>TYPICAL VALUE</i>	<i>ASTM TEST METHOD</i>
Color	Light Gray	
Weight per Gallon Part A (Resin) Part B (Hardener)	9.4 lbs. 8.3 lbs.	
Solvent Content	Solvent Free	Calculated
Coverage, sq. ft. per gal, @ 64 mils thickness	25 (4 gal./sq.)	-----
Hardness, Shore A	63 ± 3	D-2240
Tensile Strength	2000 ± 200 psi	D-412
Ultimate Elongation, %	650 ± 100%	D-412
Tear Resistance	225 ± 25 pli	D-1004
Pot Life, @77°F	30 – 40 minutes	-----
Gel Time, @77°F	45 - 60 minutes	-----
Low Temperature Brittleness @ -30°F	Passes	D-746
Flash Point, Mixed Material	Above 200°F (93.9°C)	D-3278
Water Absorption, 1 week @ 77°F	Negligible	-----

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