



INTERNATIONAL

# TECHNICAL DATA

## UREA-TUFF 4260

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

#### 1. PRODUCT

UREA-TUFF 4260 is a two-component, liquid-applied hybrid polyurea elastomer designed for use as a mix-in-the-bucket, but yet rapid-curing, monolithic waterproofing membrane.

#### 2. FEATURES

UREA-TUFF 4260 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  
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-TUFF 4260 is a solvent-free, two-component, liquid-applied, aromatic polyurea-polyurethane elastomer containing no tar or asphaltic extenders.

**Basic Uses:** UREA-TUFF 4260 is designed for use as a high mil thickness, liquid-applied, high solids elastomeric waterproofing membrane for concrete, plywood, or metallic substrates.

#### SUGGESTED APPLICATIONS:

- Base coat on vehicular decks, pedestrian walkways, patios and helipads.
- High performance between slab waterproofing system for parking decks or roof decks.
- Waterproofing under kitchen, laundry, bathroom floors and shower pans.
- Used as a higher hardness sealant or bedding compound in a multitude of applications.
- Waterproofing inside planter boxes and as a geotextile fabric reinforced buried membrane for reflective pools.
- Waterproofing under tile, terrazzo or wood floors.
- Waterproofing protection for subgrade structures and tunnels.
- Secondary containment buried membrane around storage tanks when used with Epoxy Top Coats.

**Limitations:** Containers that have been opened should be used within several days. Opened pails should be purged with nitrogen prior to resealing lids. UREA-TUFF 4260 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 Tufflex Aliphatic Polyurea top coat should be applied to prevent UV discoloration.

**Shelf Life:** Nine (9) 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-TUFF 4260 must be free of all contamination including oil, grease, concrete curing compounds, paint and dirt. New concrete surfaces should be shotblasted, sanded or mechanically scarified to remove laitance 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 TUFFLEX International, Inc. (TUFFLEX INT'L).

**Priming:** Most application conditions require priming. Use TUFF-POXY #3 (Low VOC) Epoxy Primer. Allow the primer to properly cure to a firm but tacky condition prior to application of the UREA-TUFF 4260 membrane system. Apply the primers at the rate of 250-350 square feet per mixed gallon and apply bonding aggregate when needed.

#### 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 25 to 35 minutes at 77°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 1-2 minutes, taking care that the sides and bottom of the mixing pail are scraped with a broad blade spatula.

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 32-64 mils is recommended. Four gallons of the mixed material applied at a thickness of 64 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 45°F or higher and should not proceed during inclement weather.

6.7. UREA-TUFF 4260 may also be spray applied followed by backrolling using appropriate two-component urethane dispensing equipment.

6.8. UREA-TUFF 4260 will attain its initial set within 3 to 4 hours however it will remain slightly tacky to the touch.

6.9. If multiple coats of UREA-TUFF 4260 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 lacquer thinner but an approved urethane-grade solvent such as xylene or acetone. Do not puddle cleaning solvents. Allow the solvent to fully evaporate prior to applying additional coats. Allow the application of UREA-TUFF 4260 to cure for at least 4 hours, and until firm, before recoating with additional materials.

#### 7. MAINTENANCE

If UREA-TUFF 4260 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 acetone solvent and recoating with properly mixed UREA-TUFF 4260.

## 8. TECHNICAL SERVICE

Technical assistance is available by contacting:

**TUFFLEX INTERNATIONAL, INC.**  
**10880 Poplar Avenue**  
**Fontana, CA 92337**  
**Phone: 909-349-2016**  
**Fax: 909-823-6309**

## 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 Sheets (SDS) prior to handling the epoxy primers or the UREA-TUFF 4260 Membrane. **THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.**

## 11. PHYSICAL PROPERTIES (TYPICAL)

## 10. LIMITED WARRANTY

TUFFLEX INTERNATIONAL, INC. (TUFFLEX INT'L) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any TUFFLEX INT'L materials prove to contain manufacturing defects that substantially affect their performance, TUFFLEX INT'L will, at its option, replace the materials or refund its purchase price.

This limited warranty is the only warranty extended by TUFFLEX INT'L with respect to its materials. There are no other warranties, including the implied warranties of merchantability and/or fitness for a particular purpose. TUFFLEX INT'L 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 TUFFLEX INT'L'S liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the TUFFLEX INT'L material in question.

## UREA-TUFF 4260

<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, @ 60 mils thickness	25 (4 gal./sq.)	-----
Hardness, Shore A	63 ± 3	D-2240
Tensile Strength	1500 ± 100 psi	D-412
Ultimate Elongation, %	650 ± 100%	D-412
Tear Resistance	225 ± 25 pli	D-1004
Pot Life, @77°F	25 – 35 minutes	-----
Gel Time, @77°F	40-60 minutes	-----
Low Temperature Brittleness @ -30°F	Passes	D-746
Flash Point, Mixed Material	Above 200°F (93.9°C)	D-3278

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