



# TECHNICAL DATA

## ELASTA-TUFF 5000

### SINGLE COMPONENT URETHANE WATERPROOFING MEMBRANE

#### 1. PRODUCT

ELASTA-TUFF 5000 is a single component, liquid applied, high adhesion, moisture cured polyurethane waterproofing coating. It is used as the First Coat or Base Coat for most of the polyurethane deck and roof coating systems supplied by TUFFLEX Polymers. ELASTA-TUFF 5000 is used in those areas where a low VOC, medium solvent containing base coat is desired.

#### 2. FEATURES

Single Component  
High Strength, High Elongation, High Adhesion  
Excellent Waterproofing Properties  
Withstands Extreme Environmental Conditions  
Low Odor During Application and Cure

#### 3. BENEFITS

Easy Application, No Mixing in Curing Agent  
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

**BASIC USES:** ELASTA-TUFF 5000 is the standard Base Membrane used in most of the ELASTA-TUFF Vehicular Traffic Bearing and Pedestrian Deck Coating systems. Please refer to the pertinent Installation Specification Data Sheet on each of these systems.

**LIMITATIONS:** Containers that have been opened must be used within one or two days since the product is a moisture-reactive material that will gel or set up when exposed to moisture in the air. A polyethylene sheet should be used as a blanketing material prior to re-sealing the lid on a partially used container. Prior to the application of ELASTA-TUFF 5000, proper surface preparation procedures must be followed. Refer to the TUFFLEX Technical Bulletin on Surface Preparation of Plywood and Concrete Substrates.

ELASTA-TUFF 5000 cures faster when applied during warm weather and high humidity conditions and slower during cool temperatures and low humidity conditions. The rate of cure may be accelerated by incorporating TUFFLEX Accelerators.

**SHELF LIFE:** Nine (9) months after manufacture when continuously stored in unopened metal pails at temperatures under 80°F. Stir thoroughly prior to use.

**STANDARD COLOR:** Concrete Gray

#### 5. INSTALLATION

**SURFACE PREPARATION:** All substrates must be free of all contaminants and should be primed with TUFFLEX water-based or TUFFLEX solvent-based epoxy primers prior to the application of ELASTA-TUFF 5000. Apply primers at a rate of 250-350 square feet per gallon depending upon substrate porosity or surface profile.

**APPLICATION:** ELASTA-TUFF 5000 is normally applied at a rate of 40 to 50 square feet per gallon, per coat; resulting in a 32 to 40 mil wet film thickness. When applying onto sloped or uneven surfaces, two or more coats of the standard ELASTA-TUFF 5000 Base Coat are required for this coverage. Allow a minimum of 16 to 24 hours cure time between coats. ELASTA-TUFF 5000 is easily applied by squeegee, roller or notched trowel. ALWAYS FOLLOW BY BACKROLLING. Application should not commence unless the ambient temperature is 45°F or higher, and should not proceed during inclement weather. ELASTA-TUFF 5000 is usually used in conjunction with ELASTA-TUFF 6000-AL Aliphatic Top Coats. TUFFLEX Accelerators may be added to ELASTA-TUFF 5000 to compensate for slower cure time in cold weather or for a shortened cure time for rehabilitation or repair projects. Please refer to the Accelerator Technical Bulletins or contact TUFFLEX for details.

#### 6. AVAILABILITY AND COST

ELASTA-TUFF 5000 is supplied through Building Material Distributors. Prices vary with quantity and packaging. For the name of your nearest Distributor please contact the factory. These products are designed and manufactured to be installed by professional installers familiar with surface preparation and application procedures. All others should consult a professional installer. Those who choose to install these products without professional assistance do so at their own risk.

#### 7. PRECAUTIONS

Before using this product, read the container precaution label and Safety Data Sheet (SDS) carefully. Exposure to urethanes or petroleum solvents may cause allergic skin or respiratory reactions. Do not get into eyes, onto skin or clothing. If contact occurs, flush affected areas with soap and water. Wash clothing before reuse. Use only with adequate ventilation. Seek medical help for all over exposures. THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.

#### 8. TECHNICAL ASSISTANCE

Technical Assistance is available by contacting:

**TUFFLEX POLYMERS**  
10880 Poplar Avenue  
Fontana, California 92337  
Phone: (909) 349-2016  
Fax: (909) 823-6309

#### 9. LIMITED WARRANTY

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

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

10. TECHNICAL DATA

**ELASTA-TUFF 5000 URETHANE BASE MEMBRANE**

<i>PROPERTY</i>	<i>TYPE 5000-SC (100 VOC)</i>	<i>TYPE 5000 (200 VOC)</i>	<i>TEST METHOD</i>
Solids Content (By Weight)	8 ± 2%	86 ± 2%	ASTM D-1353
VOC Content	100 grams/liter	200 grams/liter	
Weight per gallon	10.4 +/- 0.2 lbs.	10.4 +/- 0.2 lbs.	ASTM D-1475
Viscosity @ 77°F	50-90 poise	50-90 poise	Brookfield
Flash Point	Above 120°F	Above 120°F	ASTM D-93
Cure Time @ 77°F, 50% R.H. @ 32mils	24 hours	24 hours	-----
Tensile Strength	900 ± 100 psi	900 ± 100 psi	ASTM D-412
Ultimate Elongation	550 ± 100%	550 ± 100%	ASTM D-412
Hardness, Shore A	65 ± 5	65 ± 5	ASTM D-2240
Tear Resistance	150 ± 25 lb./in.	150 ± 25 lb./in.	ASTM D-1004
Adhesive Bond Strength on Primed Concrete	195 psi Cohesive Failure	195 psi Cohesive Failure	ASTMD-903

ELASTA-TUFF 5000 (09)