



INTERNATIONAL

TUFFLEX “RFG” CUSTOM-TAILORED REINFORCING FABRIC

TECHNICAL DATA

DESCRIPTION:

TUFFLEX “RFG” is a composite Fiber Glass Filament Reinforcing Mat. It is a combination of glass, polyester binder resin and silane. It is used to reinforce TUFFLEX urethane deck coatings in high-stress areas and TUFFLEX Epoxy Resins in those areas in need of increased impact resistance. While the chemical and thermal properties of TUFFLEX “RFG” Reinforcing Fabric are essentially those of glass, the product’s hydraulic overlapping of fibers endows it with an extraordinary combination of unique physical and performance properties when encapsulated in TUFFLEX polyurethane membranes or epoxy resins.

In high performance roof coating applications, TUFFLEX “RFG” is the preferred reinforcing fabric because the non-woven interstitial openings allows the impregnating polyurethane membrane or epoxy resin a better chance to key through the fabric to form the important bond. When properly impregnated with the Elasta-Tuff 5000 or TUFFLEX Standard Outdoor “RBC” polyurethane membranes there is formed a non-hydroscopic, lightweight, high tear strength, multi-directional fabric reinforced waterproofing system which will not rot and is highly resistant to abrasion.

BENEFITS:

The distinctive characteristics of TUFFLEX “RFG” Reinforcing Fabric when properly encapsulated with TUFFLEX Polyurethane Membranes yields higher ultimate tensile strength combined with increased tear strength, increased toughness and non-raveling properties in combination with excellent dimensional stability (i.e. better distribution of localized stress).

TUFFLEX “RFG” is a universal fabric that can be used with either TUFFLEX polyurethane waterproofing membranes as well as TUFFLEX manufactured epoxy resin systems. TUFFLEX “RFG” is an excellent repair and reinforcement fabric for both new and remedial construction in decking, roofing and below-grade waterproofing applications. Other applications include: foundations, slabs, tunnels, subways, pipeline joint wrap, parapet wall treatment, plaza decks, roofing insulation and vertical waterproofing repair operations. Elasta-Tuff 5000-SR polyurethane membrane was especially developed for embedding TUFFLEX “RFG” reinforcing fabric.

AVAILABILITY:

TUFFLEX “RFG” Reinforcing Fabric is available in four sizes:

(100 sq. ft.)	100 rolls per pallet
(200 sq. ft.)	60 rolls per pallet
(500 sq. ft.)	30 rolls per pallet
(1900 ± sq. ft.)	16 rolls per pallet

TYPICAL PHYSICAL PROPERTIES:

Weight Classification	Heavy Type
Elongation	Up to 40%
(with resin encapsulation)	
Tear Resistance	Excellent stress distribution
Moisture Effects	0.5% absorption at relative humidity of 98%
(without encapsulation)	
Sunlight Resistance	90% tensile strength retention after six-month exposure test
(with resin encapsulation)	
Chemical Resistance	Good resistance to acids and alkalis at R/T
(without encapsulation)	

ADVANTAGES (Encapsulated in TUFFLEX Membranes):

1. High tensile strength and toughness.
2. Higher impact resistance
3. Higher Tear strength – Excellent stress distribution
4. Lightweight. – ¾ oz /sq.ft added weight
5. Improved resistance to cold cracking, chemicals and solvents.
6. Fabric Properties are not affected by water.
7. Dimensionally stable during changes in humidity.
8. High resistance to splitting or cracking from thermal shock, low temperatures, freeze/thaw cycles, and rough handling.
9. Increased resistance to chemicals and animal fats found in restaurant and public service roof top environments as well as lubricants used for maintenance of rooftop motors and air conditioners.
10. Outstanding resistance to rot and water damage.
11. Increased resistance to intermittent exposure to high temperatures.

LIMITED WARRANTY

TUFFLEX International, Inc. (TUFFLEX INT’L) warrants these products 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 effect 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 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.