



## KRUBBER® Composite Roof-X Membrane

KRUBBER®

## Introduction

KRUBBER® Composite Roof-X membrane is a versatile terpolymer-based waterproofing membrane that finds extensive use in various construction applications, particularly in green roofing and podium waterproofing. This specialized membrane exhibits exceptional resilience against weathering, UV radiation, ozone, and extreme temperatures, making it a prime selection for roofing applications.

In the realm of roofing, KRUBBER® Composite Roof-X membrane serves as a robust, resilient layer that creates a durable and waterproof shield for the roof structure. By effectively preventing water ingress, this membrane safeguards the building against structural deterioration and water-related issues. Additionally, it features a root barrier, enhancing its functionality by preventing root intrusion into the roofing system.

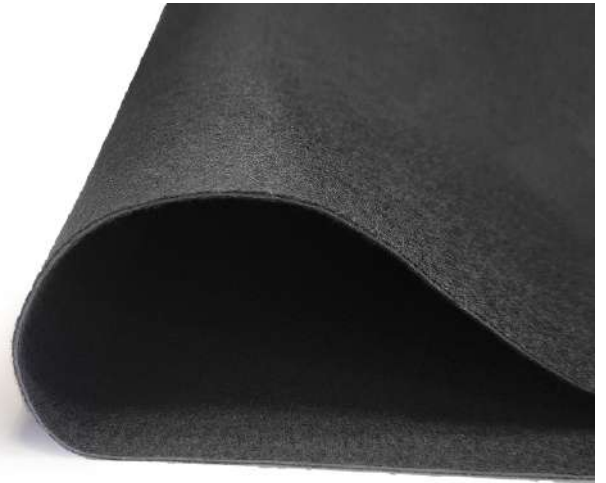
The KRUBBER® Composite Roof-X membrane also boasts integrated fleece on one side, which mechanically embeds into overlay such as screed, mortar, tile adhesives, and other roofing materials. Fleece also provides mechanical robustness and protection to the membrane core. Its straightforward installation and maintenance procedures offer flexibility and customization options tailored to the specific requirements of the roofing project.

In conclusion, KRUBBER® Composite Roof-X membrane emerges as a dependable and efficient choice for roofing applications, offering enduring protection against water penetration, water-induced damages, and root intrusion, with its embedded fleece enhancing its mechanical bond with the roofing overlays.

KRUBBER® Composite Base-X membrane is integrated with fleece on one side which mechanically get engaged into the **concrete** thus becomes fully bonded with raft and confined retaining walls similarly with the help of KRUBBER® adhesive, Base-X gets fully adhered to the unconfined retaining wall. The engaged fleece also plays an important role in protecting the inner core of membrane from any kind of damages. Waterproofing shall be applied on RCC or composite metal deck or precast segmental slab and vertical walls such as parapet, planter walls etc. The waterproofing membrane shall always be fully adhered and bonded to the substrate with Krubber® adhesive.

## Benefit

- ROOT BARRIER
- ROBUST AND TOUGH AGAINST WEAR AND TEAR
- HIGHLY ELASTOMERIC FOR BETTER ELONGATION
- ALKALI, ACIDS & PESTICIDES, FERTILIZERS RESISTANT
- EASE OF INSTALLATION RESULTING IN FASTER COMPLETION
- COMPOSITE EFFECT IMPARTS A STRONG AND PERMANENT BOND WITH SUBSTRATE AND OVERLAYS
- THE FLEECE ACTS AS BONDING AND PROTECTION LAYER TO MEMBRANE CORE AT SITE
- DIMENSIONAL STABLE AND NO DEFORMATION
- UNIQUE ELASTOMERIC TERPOLYMER FORMULATION FOR LONG SERVICE LIFE
- HIGH TEAR AND PUNCTURE RESISTANCE



# KRUBBER® Roof-X, Composite Elastomeric Terpolymer Membrane

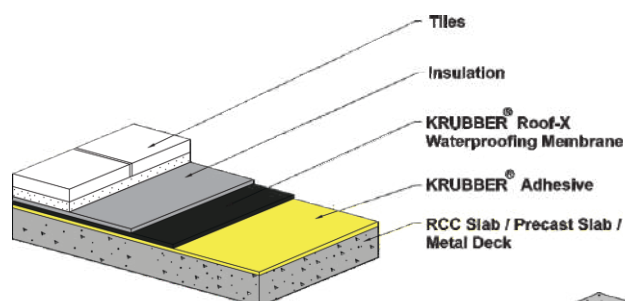
The waterproofing membrane shall be minimum 1.3mm thick Composite prefabricated elastomeric terpolymer based waterproofing membrane. The membrane shall be able to meet requirements listed below in Table 1.

Table 1: Composite prefabricated elastomeric terpolymer Waterproofing membrane characteristics

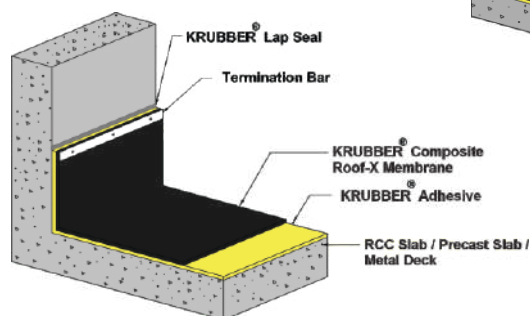
No.	Parameter	Test Method	Performance Spec as per ASTM Standard	Test Values
1	Thickness of Composite Terpolymer Membrane with Fleece on one side (mm)	ASTM D-412	-	1.3
2	Thicknesses of Terpolymer Membrane Core (mm)	ASTM D-412	1.02 (+15% / -10%)	1.02
3	Specific Gravity of Terpolymer Membrane Core (g/cm <sup>3</sup> )	ASTM D-297	1.23 (+/- 10%)	1.23
4	Tensile Strength (MPa) Terpolymer Membrane core	ASTM D-412	9 (Min)	9.8
5	Elongation ultimate (%) Terpolymer Membrane core	ASTM D-412	300 (Min)	410
6	Tensile Set (%) Terpolymer Membrane core	ASTM D-412	10 (Max)	8
7	Tear Resistance (kN/m) Terpolymer Membrane core	ASTM D-624	26.27 (Min)	29
8	Ozone Resistance Terpolymer Membrane core, No Cracks	ASTM D-1149	PASS	PASS
9	<u>Heat Aging of Terpolymer Membrane core</u>	ASTM D-573		
	Tensile Strength (MPa)	ASTM D-412	8.30 (Min)	8.5
	Elongation Ultimate (%)	ASTM D-412	200 (Min)	285
	Tear Resistance (kN/m)	ASTM D-624	21.9 (Min)	22.5
	Liner Dimension Change Max (%)	ASTM D-1204	±1	+0.2
10	Water Absorption of Terpolymer Membrane core (Mass %)	ASTM D-471	+8, -2	+2
11	Weather Resistance of Terpolymer Membrane core	ASTM G -155		
	Visual Inspection	ASTM G-151	Pass	Pass
	No Cracks or Cracking	ASTM D-518		
12	Puncture Resistance (Kgs) of Terpolymer Membrane core	ASTM D-5602	32	34
13	Hardness (Shore A) of Terpolymer Membrane core	ASTM D-2240	60 (+/- 10)	62
14	Fleece Material	-	PP/PE	PP/PE

The above-mentioned material specification shall comply with the properties in ASTM D 4637 Standard spec for waterproofing membrane applications in roof.

## KRUBBER® ROOF WATERPROOFING SYSTEM BUILTUP



**Flat Roof Hardscape**



**Green Roof - Landscape**

### Accessories:

Grinder	To grind the substrate
Seam Roller	For pressing seams / overlap
Brush or Rollers	For applying Adhesive and Primer
Hard brush	To press the bonded membrane and remove entrapped air.
Sealant Gun	For KRUBBER® Lap Seal
Seam Probe Tester	To test overlap seams
Other General Accessories	Scissors, Blades, Measuring tapes, Stirrer, Masking tapes, Marking chalks, Drill machine and Screws.

### Product's Used:

KRUBBER® Roof-X Composite Membrane with elastomeric terpolymer core	Overall composite membrane thickness: 1.3mm, 1.5mm
	Inner Terpolymer Core thickness : 1.0mm, 1.2mm
KRUBBER® Adhesive for overlaps and substrates	1 Ltr covers approx. 3 Sq Mtrs
KRUBBER® Lap Seal for seam edges and around penetrations	Approx 10 Running Mtrs per 310ml Cartridge
KRUBBER® Termination Bar on vertical surfaces	2" Aluminum bar



## **KRUBBER PRIVATE LIMITED**

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