



KRUBBER® Composite Base-X Membrane

KRUBBER®

Introduction

KRUBBER® Composite Base-X membrane is a versatile terpolymer based waterproofing membrane that has been widely used in various construction applications, including basement and foundation waterproofing. This type of membrane is fully bonded to the structure, highly resistance to Aggressive ground water conditions and wear and tear making it an ideal choice for below-grade applications.

In basement waterproofing, KRUBBER® Composite Base-X membrane is a tuff, robust layer used to create a durable and watertight barrier under raft slab and for retaining walls against harsh underground water. By preventing water from seeping through and into the basement, KRUBBER® Composite Base-X membrane helps to protect the building from structural damage and leakage-related problems.

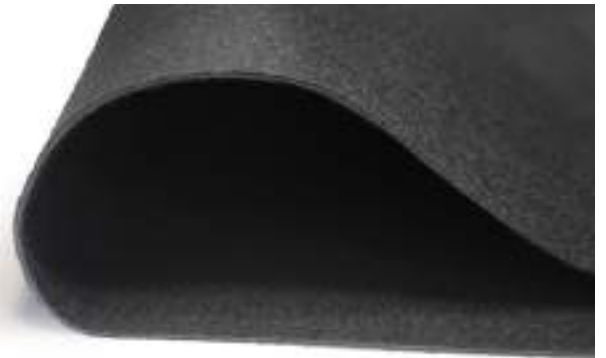
KRUBBER® Composite Base-X membrane is also easy to install and maintain. This flexibility in installation methods allows for a customized solution that meets the specific needs of the basement and other under ground applications.

Overall, KRUBBER® Composite Base-X membrane is a reliable and effective choice for basement waterproofing, providing long-lasting protection against water infiltration and water damage.

KRUBBER® Composite Base-X membrane is integrated with fleece on both sides 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.

Benefit

- ROBUST AND TOUGH AGAINST WEAR AND TEAR
- HIGHLY ELASTOMERIC FOR BETTER ELONGATION
- CHEMICAL RESISTANCE AGAINST AGGRESSIVE GROUNDWATER CONDITIONS
- EASE OF INSTALLATION RESULTING IN FASTER COMPLETION
- COMPOSITE EFFECT IMPARTS A STRONG AND PERMANENT BOND WITH THE RAFT SLAB AND RETAINING WALL
- THE FLEECE ACTS AS CUSHIONING 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 composite Base-X waterproofing membrane

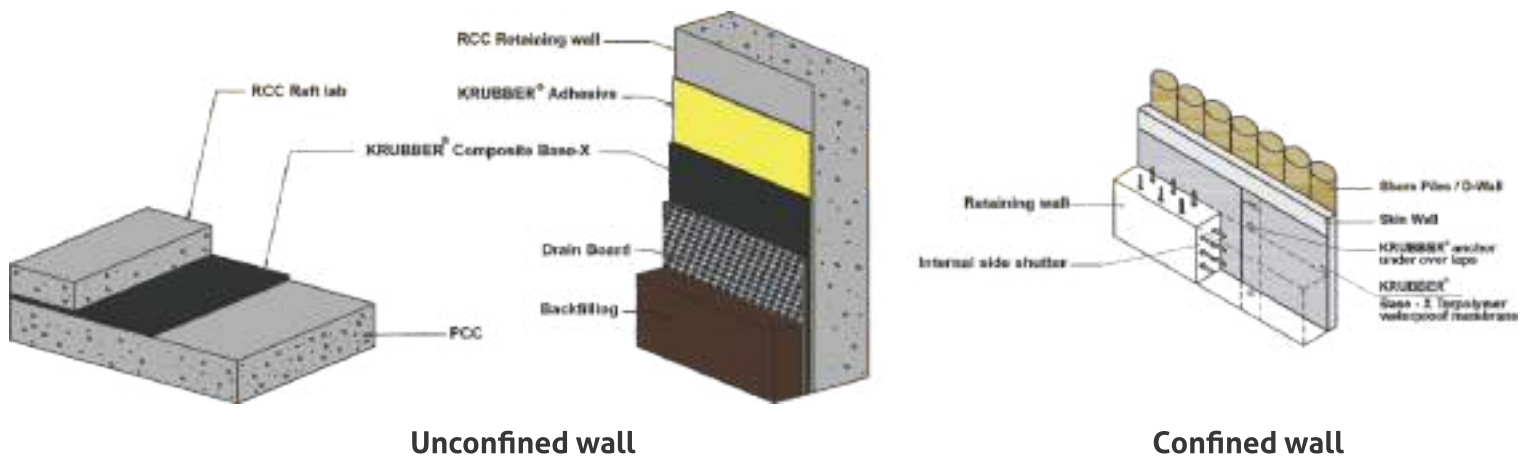
The waterproofing membrane shall be minimum 1.6mm thick Composite prefabricated elastomeric terpolymer based waterproofing membrane. The membrane shall be able to meet requirements listed below in Table 1.

Table 1: Composite prefabricated elastomeric terpolymer Waterproofing membrane characteristics

No.	Parameter	Test Method	Performance Spec as per ASTM Standard	Test Values
1	1.1) Under Raft and Confined Retaining wall: Krubber Base-XH, Thickness of Composite Terpolymer Membrane with Fleece on both sides (mm)	ASTM D-412	-	1.6
	1.2) For Retaining Wall (Unconfined) and Basement roof slab: Krubber Base-XV, Thickness of Composite Terpolymer Membrane with Fleece on one side (mm)			1.3
2	Thicknesses of Terpolymer Membrane Core (mm)	ASTM D-412	1.00 (+15% / -10%)	1.0
3	Specific Gravity of Terpolymer Membrane Core (g/cm ³)	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	Heat Aging of Terpolymer Membrane core	ASTM D-573		
	Tensile Strength (MPa)	ASTM D-412	8.30 (Min)	8.5
	Elongation Ultimate (%)	ASTM D-412	210 (Min)	285
	Tear Resistance (kN/m)	ASTM D-624	21.9 (Min)	22.5
	Liner Dimension Change Max (%)	ASTM D-1204	±1	+0.2
9	Water Absorption of Terpolymer Membrane core (Mass %)	ASTM D-471	+4	+2
10	Weather Resistance of Terpolymer Membrane core	ASTM G-155	Pass	Pass
	Visual Inspection	ASTM G-151		
	No Cracks or Cracking	ASTM D-518		
11	Puncture Resistance (Kgs) of Terpolymer Membrane core	ASTM D-5602	32	34
12	Hardness (Shore A) of Terpolymer Membrane core	ASTM D-2240	60 (+/- 10)	62
13	Fleece Material	-	PP/PE	PP/PE

The above-mentioned material specification shall comply with the properties in ASTM D 7465 Standard spec for geomembrane waterproofing membrane applications in underground / Below grade. The Krubber Base-X Waterproofing systems is also in compliance with BS 8102-2022 TYPE A.

KRUBBER® BASEMENT WATERPROOFING SYSTEM BUILTUP



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® Composite Base-X Membrane	Thickness Recommended : 1.6mm, 1.8mm
KRUBBER® Adhesive	1 Ltr covers approx. 2 Sq Mtrs
KRUBBER® Lap Seal	Approx 10 Running Mtrs per 310ml Cartridge
KRUBBER® Drain board	8mm thick minimum
KRUBBER® Termination Bar	2" Aluminum bar



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