



BITUSELF 1.6 MM XL

CROSS LAMINATED REINFORCED SELF-ADHESIVE WATERPROOFING MEMBRANE

What is BITUSELF?

BITUSELF is a self-adhesive waterproofing membrane of the highest quality.

BITUSELF is made from Styrene Butadiene Styrene modified elastomeric bituminous compound thus guaranteeing superior performance under various conditions.

BITUSELF compound is surfaced with tough cross laminated HDPE film of for better protection. Silicone self-release film with outstanding physical properties protects on the self-adhesive side.

BITUSELF is specially designed to provide high waterproofing protection.

BITUSELF is an SBS modified bitumen, self-adhesive waterproofing membrane, reinforced for more dimensional stability.

Uses

BITUSELF is a self-adhesive membrane, can be used as waterproofing and damp proofing membrane intended for concrete protection.

BITUSELF can be applied in:

- RETAINING WALLS
- INFRASTRUCTURE
- BRIDGES
- TUNNELS
- FOUNDATIONS

Advantages

BITUSELF Membrane has been designed with special regard to providing clients with an excellent and versatile product.

Advantages of **BITUSELF** include:

- Easy to apply (by Self Release).
- Superior Adhesion
- Absolute impermeability to water.
- Excellent tensile strength, resistance to tear and puncture.
- Resistance to soil chemicals.
- High elongation.
- Excellent high temperature performance.
- High dimensional stability.
- Environmentally friendly.

Quality Control

BITUMODE QATAR Waterproofing Factory is ISO 9001:2015, ISO 45001:2018 and ISO 14001:2015 certified. It applies a stringent quality control system utilizing its in-house laboratory. Occasional samples are analyzed by independent laboratories to ensure continued adherence to the highest standards (ASTM, EN, etc.).

Product Range

Standard thickness available include 1.6mm. Bottom surface is self-release film.

The nominal length of each roll is 20 meters, and the nominal width is one meter. Special specifications can be designed based on client's needs.



BITUSELF

SELF ADHESIVE MEMBRANE

BITUSELF 1.6 MM XL

CROSS LAMINATED REINFORCED SELF-ADHESIVE WATERPROOFING MEMBRANE

TECHNICAL DATA		TEST METHOD	UNIT	RESULT	TOLERANCE
Roll Length		ASTM D 5147	m	20	1%
Roll Width		ASTM D 5147	m	1	1%
Thickness		ASTM D 5147	mm	1.6	±5%
Tensile strength Film*1	Long	ASTM D 882	Mpa	40	-20%
	Trans		Mpa	40	-20%
Elongation Film*1	Long	ASTM D 882	%	≥ 250	-15%
	Trans		%	≥ 250	-15%
Puncture Resistance		ASTM E 154	N	350	-20%
Deflection			mm	45	-10%
Adhesion to Primed concrete		ASTM D 1000	N/mm	1.95	-5%
Elongation Compound*2		ASTM D 1000	%	1600	-5%
Cold Flexibility		ASTM D 5147	°C	-30	-
Water Resistance, Absorption		ASTM D 570	%	0.1	-5%
Environmental Resistance		ASTM D 543		Resistant	-
Water Permeability @ 7bar (70 m)		DIN 1048: Part5: 1991	-	No leak	-
Tear Resistance Film*1	Long	ASTM D 1004	N/mm	340	-15%
	Trans		N/mm	310	-15%

NOTES:

- ❖ The above results are based on 1.6 membrane.
- ❖ Due to constant product improvements, BITUMODE QATAR WATERPROOFING FACTORY reserves the right to change above values without advance notice. Above mentioned figure is according to Ver.14 Printed Mar 2025.
- ❖ *1 Test is conducted only for the cross laminated Film.
- ❖ *2 Test is conducted only on the compound not the end product.

STORAGE:

- ❖ BITUMODE membranes should be stored vertically in well covered and ventilated place not subject to direct sunlight.
- ❖ Bitumode Membrane has a shelf life of 12 months from the data of production.

APPLICATION INSTRUCTIONS:

- ❖ The application temperature should be between 5-degree C to 50 °C
- ❖ The surface shall be cleaned thoroughly of all dust, oil, and grease.
- ❖ Applied Bitumode Primer SB (Solvent Base primer) to a clean smooth and dry surface by brush, roller, or spray. Allow the primer to dry priorities application of the self-adhesive waterproofing membrane.
- ❖ The self-adhesive membrane is applied by positioning the roll over the area to be waterproofed and peeling the siliconized release film why pressing the adhesive surface to the primed substrate.
- ❖ The membrane is pressed from mid-point to the edges to expel any air bubbles and to ensure good contact by using rubber roller.
- ❖ The adjacent roll is in positioned to overlap the fixed membrane by at least 80-100 mm along the edge.
- ❖ The selvage at the edge of the fixed membrane is then peeled back one meter at the time while fixing the second roll.
- ❖ End laps must be minimum 200 mm wide.
- ❖ All seams must be pressed from the top using the suitable seem roller insuring total contact at the seams.
- ❖ Prior to back fill, the membrane should be protected within 24 hrs by Bitumode protection board using solvent adhesive glue.

- ❖ Once the membrane has been applied to a horizontal and vertical wall, the membrane must be protected by a maximum of 24 hours' time to avoid any future mechanical damage.
- ❖ Kindly note that once we delivered the material you need to put our products in the shaded area which is properly ventilated area to avoid any mechanical damage,
- ❖ After successful installation, it is crucial to ensure that the bituminous membrane remains protected and not exposed or uncovered for a period exceeding seven days." If the bituminous membrane remains uncovered for an extended period, several consequences may arise:
 1. **UV Degradation:** Exposure to sunlight can cause the bituminous membrane to degrade due to ultraviolet (UV) radiation. This can lead to a reduction in its flexibility, cracking, and loss of waterproofing properties.
 2. **Weather Damage:** Unprotected from the elements, the membrane is susceptible to damage from rain, wind, and other weather conditions. This can result in water seepage and structural issues.
 3. **Contamination and Debris:** Leaving the membrane uncovered can attract dust, dirt, and debris, which might hinder its effectiveness and impair adhesion during subsequent construction stages.
 4. **Premature Aging:** The prolonged exposure to environmental factors can accelerate the aging process of the membrane, leading to premature failure and shortened service life.
 5. **Voided Warranty:** Manufacturers often specify guidelines for proper installation and care. If the membrane remains uncovered beyond the recommended time frame, the warranty may become void,

For further details, please contact Bitumode technical department.

Bitumode Qatar Waterproofing Factory

New Industrial Zone, Doha, Qatar

Tel: (+974) 44 44 2717

Fax: (+974) 44 44 2818

P.O. Box 39199, Doha, Qatar

Email: info@bitumodeqatar.com

Website: www.bitumodeqatar.com

MEMBER

