



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, OHSAS 18001:2007 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

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| 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 | ASTM D 882 | % | ≥ 250 | ±15% |
| Puncture Resistance | | ASTM E 154 | N | 350 | ±10% |
| 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 | -20 | - |
| Water Resistance, Absorption | | ASTM D 570 | % | 0.1 | ±5% |
| 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:

- 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 are according to Ver.8 Printed October 2018.
- *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.

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 are 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 48 hrs by Bitumode protection board using solvent adhesive glue.

Bitumode Qatar Waterproofing Factory

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