

**IZOSELF** polyester is a tough preformed waterproofing membrane comprising a strong cross laminated, internally reinforced with fiberglass mat with superior mechanical properties and a thick elastic self adhesive SBS bitumen compound, it also incorporates a quick release film to ensure clean adhesion.

**Product features:**

- fast cold application on a primer substrate
- peel & stick self adhesive waterproofing systems
- unaffected by corrosive salts and dilute acids found in ground water
- Good puncture resistance and tensile strength
- Excellent dimensional stability.
- Tough cross-laminated film on the surface for better protection.
- Thickness : it comes in various thickness from 1.5mm to 4mm

**Uses:**

- Waterproofing under tiles wet area, such as kitchen, bathroom, balconies etc.
- Substructure waterproofing to areas subject to stress and movement.
- Tanking water reservoirs and other liquid retaining, or liquid excluding, structures
- Suitable also for roof waterproofing
- Waterproofing of sewerage concrete manholes, chambers etc.

**Application method :**

Surface preparation: concert shall be in place for seven days (minimum) after forms are removed and must be dry. care should be taken that surface to be waterproofed are completely clean, totally dry, smooth, level and free from loose material. Any sharp protrusions such as nails, tying wire, etc. Must be removed and cracks, holes, spilled and damaged surfaces filled and repaired. All external corners must be chamfered

Priming : All vertical and horizontal surface must be coated with izomaks primer applied with a brush or rolled at

The rate of 200-300 gr/m2 depending on the porosity of the surface, and allowed to dry completely.

**Membrane application:**

**IZOSELF** polyester membrane are applied by positioning the roll over the area to be waterproofed and peeling the siliconized release film about one meter at a time, while pressing the adhesive surface to the primed substrate. The membrane is pressed from mid point to the edges in the order to expel any trapped air and to ensure good contact. The adjacent roll is then positioned so as to overlap the fixed membrane by at least 80-100 mm along the edge. The selvedge strip provided at the edge of the fixed membrane is then peeled back one meter at a time while fixing the second roll in the same manner as the first. End laps must be min 150-mm wide.

All seams must be pressed from the top using a suitable seams roller to ensure total contact and continuity at the seams.

Inspect the fixed membrane to ascertain that all joints are properly executed and all air is expelled from under the membrane.

**Storage:**

Material stored at temperature below 20degC should be left exposed to a warmer temperature for at least 24 hours. ambient temperatures above 50degC may give rise to difficulty in removing release film. it will be better to wait until the temperature goes down.

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**SURFACE - ALUMINUM - SAND**



**BITUMINOUS SELF-ADHESIVE REINFORCED MEMBRANES ( IZOSELF - POLYESTER )**

| SR | PROPERTIES                                         | UNIT                    | VALUE                                    | TEST METHOD |
|----|----------------------------------------------------|-------------------------|------------------------------------------|-------------|
| 1  | Softening point                                    | °C                      | 110                                      | ASTM D 36   |
| 2  | Penetration                                        | dmm                     | 70                                       | ASTM D 5    |
| 3  | Cold Flexibility                                   | °C                      | -15 to -20                               | ASTM D 5147 |
| 4  | Reinforcement                                      |                         | 120 - 130 gm/m <sup>2</sup><br>polyester |             |
| 5  | Tensile strength @23 + 2 °C                        |                         |                                          |             |
|    | Longitudinal                                       | N/5 cm                  | 700                                      | ASTM D 412  |
|    | Transversal                                        |                         | 500                                      |             |
| 6  | Elongation @23 + 2 °C                              | %                       | > 2000                                   | ASTM D 412  |
| 7  | Lap joint Strength                                 | N/5 cm                  |                                          | UEAtc       |
|    | Longitudinal                                       |                         | 700                                      |             |
|    | Transversal                                        |                         | 500                                      |             |
| 8  | Tear Strength                                      | KN/M                    |                                          | ASTM D 624  |
|    | Longitudinal                                       |                         | 44.44                                    |             |
|    | Transversal                                        |                         | 50.00                                    |             |
| 9  | Puncture Resistance                                | N                       | 500                                      | ASTM E 154  |
| 10 | Resistance to accelerated aging (weather- O-meter) |                         | Pass                                     | ASTM G 53   |
|    | 2000 hrs ( equals 10 years exposure to elements)   |                         |                                          |             |
| 11 | Water Absorption (@ 23 °C for hrs)                 | %                       | < 0.08                                   | ASTM D 5147 |
| 12 | Water Vapour Transmission,                         | g/m <sup>2</sup> /24hrs | <0.2                                     | ASTM E 96   |
| 13 | Adhesion Strength                                  | N/mm                    |                                          | ASTM D 1000 |
|    | To primed                                          |                         |                                          |             |
|    | To self N/mm                                       |                         |                                          |             |
|    |                                                    |                         | 3.2                                      |             |
|    |                                                    |                         | 3.2                                      |             |
| 14 | Impermeability of welded seams to water pressure   | -                       | Absolutely Impermeable                   | UEAtc       |
| 15 | Resistance to chemicals                            | -                       | Good/ Conform                            | ASTM D 543  |

**NOTE : THE ABOVE SHOWN TECHNICAL DATA ARE RESULTS OBTAINED IN LABORATORY AND EXTRA DETAILS CAN BE PROVIDED UPON REQUEST. IN ACCORDANCE TO ASTM AND UEAtc STANDARDS RESULTS ARE SUBJECTED TO A VARIATION OF 20 % .**



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