

## GENERAL DESCRIPTION

**IZOSELF HDPE** is a high performance cold applied, multi-ply prefabricated SBS modified self-adhesive bituminous membrane that provides an elastomeric property, reinforced with non-woven polyester and top surface finished with high density polyethylene film. When combined with its reinforcement, confers high mechanical properties and dimensional stability. Its quick release film on the back of the roll ensure self adhesion in cold applied applications without heating or flame.

## APPLICATION AREAS

**IZOSELF HDPE** is ideal for waterproofing of below ground structures such as:

- Waterproofing and damp-proofing of backfilled foundations in underground structure
- Waterproofing of retaining walls
- Waterproofing of metal roofs

## FEATURES

- Cold applied self-adhesive easy to use.
- Easy application by pressing with a roller onto the membrane while unrolling.
- High tensile, elongation and tear strength.
- Excellent adhesion when applied with **PRIMER D-41**
- Protection against salt, alkalis, and acid found in ground waters.

## QUALITY CONTROL

IZOMAKS INDUSTRIES L.L.C. Manufacturing facility is controlled by highly qualified technical team and certified QMS-ISO 9001:2015, HMS-ISO 45001:2018 and EMS-ISO 14001:2015.

## TOOLS REQUIRED

Measuring tape, knife, Marking string, roller etc.

## APPLICATION METHOD

### SURFACE PREPARATION

All surface imperfections and protrusions are to be removed and repaired. Final surface must be clean, dry, free from dust, oil and grease, laitance or other contaminations. The surface should be sound with no cracks and loose particles.

### SURFACE PRIMING

The entire surface must be primed by solvent based bituminous primer in compliance with ASTM D-41 **PRIMER D-41**

## APPLICATION LIMITATION

- Use smooth and flat safety shoes and other required safety tools.
- Do not install on moist surfaces and rainy weather.
- Avoid stepping / walking over freshly applied membrane.

## INSTALLATION METHOD

**IZOSELF HDPE** can be installed in a single layer of waterproof system.

- Insure that the surface to waterproof must be thoroughly clean, dry, sound and free from humidity. (Less than 4%)
- In cold weather conditions below 20°C, it is essential to heat the primed substrates with a hot air gun or gas torch before applying the membrane.
- Position the unrolled membrane in its place respecting 7 to 10 cm side laps and 15 cm end laps and re-roll the membrane.
- Peel of the siliconized release film from membrane and allow adhesion against primed substrate by pressing firmly using rubber hand roller, from the midpoint to the edges in order to expel any trapped air bubbles and to insure good contact to the prime substrate.

## PACKAGING

**IZOSELF HDPE** is manufactured under standard size and rolls are palletized and covered with a shrink-wrapped.

## STORAGE AND HANDLING

- Keep the material in dry, cool ventilated and shaded areas for not more than 6 months.
- Do not store exposed in the sun or humid areas.
- Do not store pallet above the pallets.

## AVAILABLE SIZES

Thickness ± 0.2mm	Size ± 1%
1.6mm	1x20meters
2mm	1x15meters
3mm	1x10meters

## TECHNICAL CHARACTERISTICS

Properties	Typical Values		Test method
Reinforcement	Non-woven polyester	Non-woven polyester	
Cold flexibility	-25°C	-25°C	ASTM D 5147
Thickness	1.6mm ± 0.2	2 and 3mm ± 0.2	ASTM D 5147
Tensile strength Longitudinal Transversal	400N/5cm ± 20% 250N/5cm ± 20%	600N/5cm ± 20% 300N/5cm ± 20%	ASTM D 5147
Elongation Longitudinal Transversal	45% ± 15% 45% ± 15%	50% ± 15% 50% ± 15%	ASTM D 5147
Lap joint strength Longitudinal Transversal	350N/5cm ± 20% 250N/5cm ± 20%	500N/5cm ± 20% 300N/5cm ± 20%	UEAtc5.2.2
Tear strength Longitudinal Transversal	250N ± 20% 150N ± 20%	300N ± 20% 200N ± 20%	ASTM D 4073
Softening point	80-100°C	80-100°C	ASTM D36
Penetration (@25°C)	70-90dmm	70-90dmm	ASTM D5
Puncture resistance Static	L2	L3	UEAtc
Water absorption (24 hours @25°C)	<1%	<1%	ASTM D 5147

## NOTE

The above shown technical data are results obtained in laboratory and extra data can be provided upon request.