izomaks
أيزوماكس

IZOVIA

Torch applied APP modified bituminous membrane reinforced with non-woven polyester mat.

GENERAL DESCRIPTION

IZOVIA is a high performance multi-ply pre-fabricated torch applied APP modified bituminous membrane, reinforced with non-woven polyester and top surface finished with polyethylene film, or fine sand, or UV protected with mineral stone or aluminium foil.
Izomaks waterproofing compound is formulated by Blended with selective grade of bitumen modified with attactic polypropylene (APP) polymers that provide an Elasto-plastomeric property, when combined with its polyester reinforcement, it confers good tensile strength, elongation and tear resistance. It has excellent dimensional stability and moderate to low cold flexibility.

APPLICATION AREAS

IZOVIA is ideal for different types of waterproofing areas, such as:

- Waterproofing and damp-proofing of backfilled foundations.
- Waterproofing of underground basements against permanent water submersion including pile capping and under raft foundations.
- Waterproofing of retaining walls.
- Waterproofing of flat roofs, balconies, terraces and wet areas.
- For exposed roofs it is recommended to use 2 layers, the second one being protected with Mineral stone or Aluminum foil.

FEATURES

- Torch applied quick melt easy to use.
- High performance even in cold weather.
- High tensile, elongation and tear strength.
- Excellent adhesion strength when use with **PRIMER D-41**
- High impact and puncture resistance.
- Resists attack from salt and alkalis.

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

Gas torch, Gas cylinder, measuring tape, trowel, knife, marking string 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 overheating.
- Avoid stepping / walking over hot applied membrane.

INSTALLATION METHOD

IZOVIA is recommended to be installed in multi layers.

- Unroll **IZOVIA** membrane in a straight line ensuring side laps of minimum 10cm and end laps of 15cm, then re-roll keeping rolls aligned.
- Make sure that the heat will melt only the PE films and asphalt compound is sufficiently softened.
- Ensure that melted bitumen is clearly overflowing the side and end lap.
- The entire corners, pipes, beams and columns section should be waterproofed by cut and fit methods prior to the installation of the general surface.
- The mineral surfaces should be used for exposed areas either horizontal or vertical surfaces.

PACKAGING

IZOVIA 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 12 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%
3 and 4mm	1x10meters
5mm	1x8meters

APPLICABLE STANDARD

ASTM D 6222

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TECHNICAL CHARACTERISTICS

Properties	Values type 1	Values type 2	Test method
Reinforcement	200g/m²	250g/m²	
Cold flexibility	-2 to -5°C	-2 to -5°C	ASTM D 5147
Tensile strength Longitudinal Transversal	 900N/5cm ± 20% 600N/5cm ± 20%	 1100N/5cm ± 20% 800N/5cm ± 20%	ASTM D 5147
Elongation Longitudinal Transversal	 50% ± 15% 50% ± 15%	 60% ± 15% 60% ± 15%	ASTM D 5147
Lap joint strength Longitudinal Transversal	 850N/5cm ± 20% 550N/5cm ± 20%	 900N/5cm ± 20% 600N/5cm ± 20%	UEAtc 5.2.2
Tear strength Longitudinal Transversal	 600N ± 20% 450N ± 20%	 700N ± 20% 550N ± 20%	ASTM D 4073
Softening point	150-160°C	150-160°C	ASTM D36
Penetration (@25°C)	15-20dmm	15-20dmm	ASTM D5
Heat stability	No changes at 120°C	No changes at 120°C	ASTM D 5147
Puncture resistance Static	 L4	 L4	 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.