

# abedex® HM

## High Movement

### SPECIAL BPE ELASTOMERIC COMPOUND REINFORCED WITH HIGH-WEIGHT SPONBOUND POLYESTER REINFORCED IN FIBREGLASS

#### DESCRIPTION

**abedex HM** membrane, combines ease of application, thermal fusibility and the flexibility at low temperatures -25 °C, strength and BPE elastomeric compound.

Furthermore, the compound has excellent qualities of adhesion and of compatibility with other oxidised and modified bitumen and it guarantees a long lasting and strong joint with a resistance to peeling which increases in time, from 2 to 3 times higher than normal bitumen based or polymer modified membranes.

**abedex HM** is reinforced with a high grammage, non woven fabric of continuous extruded polyester which is extremely strong and elastic.

**abedex HM** is coated on both faces with Flamina, a film that melts when torched with an optimum retraction, which guarantees a fast and reliable installation.

#### USES

- Excellent resistance to fatigue of the **abedex HM** membranes, due to the high elasticity at low temperatures, make them suitable for use in the most demanding of waterproofing installations. Fractional substructures or ones that are subject to cracking and vibrations, even in cold climates. The product being reinforced with polyester non-woven fabric, render it suitable for use as a waterproofing membrane for construction joints and can be joined by a gas torch fusion a torch to the waterproof surface.
- On all inclined surfaces: on flat, inclined and curved surfaces.
- On different types of surfaces: site-cast or pre-fabricated cement substructures, on metal or wooden roofing, on the most widely used heat insulation products used in the building industry.
- For the most varied uses: foundations, waterworks and ecological works, tunnels, underground passages, underground subways and joints.

#### APPLICATION INSTRUCTIONS

##### SUBSTRATE PREPARATION

- The substrate is to be clean, dry and free of any dust, grease, oils or loose debris. The substrate is to be of a smooth and even condition being free of protrusions or voids.
- Coves or fillets are to be installed at all internal angles.
- Screed to falls of 1:80.

##### PRIMING

- Apply **bitu.prime** primer on substrates to receive membrane.
- Allow to flash off or dry.

##### APPLICATION/BONDING

- Avoid rough handling, especially at low temperatures below 5 °C. Work must be stopped at temperatures below -2 °C.
- Our standard application of the membrane requires that the product be fully bonded by heat fusion to the primed substrate by heat fusion.
- If a two layer membrane system is to be fitted the upper membrane must be laid with staggered side and end laps.

- We recommend side laps to be minimum of 75 mm and end laps to be a minimum of 100 mm.
- A round nosed trowel and gas torch to be used when installing the membrane ensure adequate bonding of the laps.
- Protection overlay to be determined by a professional with **a.b.e.®** technical assistance.

#### PROPERTIES

Type	Reinforce-ment	Surface finish	Thickness - weight /m <sup>2</sup>	m <sup>2</sup> / Pallet	Weight
4 mm	Spunbound Polyester	Film	4 mm	200	50 kg

#### TECHNICAL CHARACTERISTICS

Characteristic	Tolerance	
Watertightness (UNI EN 1928)	≥	100 kPa
Cold flexibility (UNI EN 1109)	≤	-25 °C
Dimensional stability L (UNI EN 1107-1)	≥	-0.3 %
Flow resistance at high temperature (EN 1110)	≥	100 °C
Flow resistance at high temperature after aging (UNI EN 1296 / UNI EN 1110)	-10 °C	-
Tensile strength L/T (UNI EN 12311-1)	-20 %	850/650 N/50 mm
Elongation at break L/T (UNI EN 12311-1)	-15 v.a.	50 %/50 %
Water vapour transmission (UNI EN 1931)	-	μ20000
Waterproof rating after exposure to chemical agents/artificial ageing (UNI EN 1928 / UNI EN 1847 / UNI EN 1296)	-	NPD

#### MODEL SPECIFICATION

Please contact the **a.b.e.®** technical sales team for a specific project specification (0860 223 773).

## IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.® Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot – because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied.

## FURTHER INFORMATION

- Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.
- **a.b.e.® Construction Chemicals** has a wealth of technical and practical experience built up over the years in the company's pursuit of excellence in building and construction technology.
- Please consult our website for our latest datasheets.



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