

abe® torch-on 4 mm

Single Reinforced

WATERPROOFING TORCH-ON MEMBRANE

DESCRIPTION

The abe® torch-on 4 mm membrane manufacturing processes uses polymer modified bitumen reinforced with a composite reinforcement. This ensures a good quality membrane that has high elongation and stability across the defined temperature range. Ideal for use in warmer climates.

The upper face of abe® torch-on 4 mm is coated with a uniformly distributed, sand finish which allows the membrane to be unrolled easily during the application.

The underside of the membrane is lined with Flamina, a sacrificial polyethylene film. It is embossed with small squares which assist in the rapid burn-off of the Flamina indicating the correct melting point for adhesion to a substrate ensuring a reliable installation.

USES

- The abe® torch-on 4 mm can be used as a single layer system or as part of a multi-layer in both the refurbishment and new building works market.
- On all sloping surfaces: flat, vertical and curved.
- On different types of substrates: site-cast or pre-fabricated concrete substrates, on timber roofing and on the most common thermal insulation used in the building trade.

ADVANTAGES

- Long life expectancy
- High elongation strength
- Guaranteed water tight
- Recyclable
- Stable
- Shear resistance of joints
- Resistance to teading
- Puncture resistant

COLOUR

Black

BONDING/PRIMING

All cementitious surfaces must be primed with abe® bitu.prime at a rate of approximately 5m²/L. Depending on the porosity of the surface a second coat of primer may be required.

APPLICATION INSTRUCTIONS

The most popular installation method is by torch fusion using a suitable propane gas torch.

The membrane needs to be fully bonded by heat fusion to the bitu.prime primed surface.

The surface needs to be sound clean and dry having no sharp protrusions, providing a surface texture compared with at least a fine wood float finish. The cast concrete surface must be allowed to dry before the sheet is applied. Drying depends on the weather and may take from 8 days to 3 weeks. To protect timber floors from the flame, a sheet of

abe® malthoid 5-ply must be nailed before application of the membrane.

A suitable screed offering adequate falls, a minimum of 1:80, is to be provided to lead the water off to the drainage outlets.

To bond the sheet to the substrate and on the overlaps, use the torch flame to melt the flaming lining on the lower face of the membrane while the membrane is being unrolled. During installation ensure that the side and end laps are 100 mm and 150 mm respectively.

When two layers are applied abe® torch-on installation should be fully torched to the first layer by heat fusion.

The membrane must be laid in a centrally staggered manner with the side and end laps. Ensure that the laps and the membrane are not over heated.

PROPERTIES

Type	Reinforcement	Surface finish	Thickness - weight /m ²	m ² / Pallet
4 mm	Polyester	Sand	4 mm	200

DIMENSIONAL SPECIFICATIONS

Length	10 m - 1% (UNI EN 1848-1)	Tol. ≥
Width	1 m - 1% (UNI EN 1848-1)	Tol. ≥
Thickness	UNI EN 1849-1	Tol. 0.4 mm
Weight per m ²	UNI EN 1849-1	Tol. 10%

TECHNICAL CHARACTERISTICS

Characteristic	Tolerance	
Watertightness (UNI EN 1928)	≥	60 kPa
Cold flexibility (UNI EN 1109)	≤	-5 °C
Dimensional stability L (UNI EN 1107-1)	≥	-0.3%
Flow resistance at high temperature (EN 1110)	≥	120 °C
Flow resistance at high temperature after aging (UNI EN 1296 / UNI EN 1110)	-10 °C	110 °C
Tensile strength L/T (UNI EN 12311-1)	-20 %	400/250 N/50 mm
Elongation at break L/T (UNI EN 12311-1)	-15 v.a.	35 %/35 %

Water vapour transmission (UNI EN 1931)	-	µ20000
Resistance to tearing (nail shank) (EN 12310-1)	-30%	120/120 N
Resistance to tearing (nail shank) (EN 12310-1)	≤	0 °C
UV Ageing	-	Passes the test (4 mm)

COVERAGE

Effective coverage: 8.9 m²/roll.

CLEANING

Tools, brushes and mixing equipment should be cleaned immediately after use and before material has set with **abe®** super brush cleaner followed by washing with soap and water.

PROTECTION ON COMPLETION

Preferably after 2 to 3 months after completion apply two coats of **abe®** silvakote to the surface to improve the resistance against UV rays or as recommended by a.b.e.® Construction Chemicals.

PACKAGING

Supplied in rolls of 10m x 1m.

CAUTION

This is not a do-it-yourself product, consult an experienced contractor.

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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