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a.b.e.® Construction Chemicals

abe® torch-on 4 mm

WATERPROOFING TORCH-ON MEMBRANE



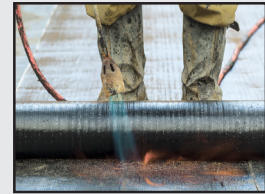
HOW TO



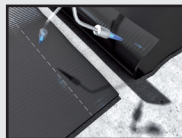
ROOFS



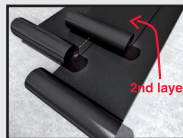
RESERVOIRS



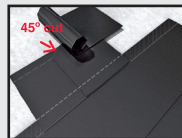
REFURBISHMENT & NEW WORK



STEP 1
SHEETS GET
TORCHED ONTO
SUBSTRATES



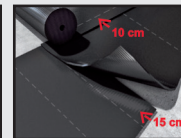
STEP 2
DOUBLE LAYER
COVERING



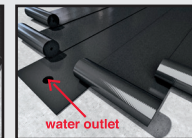
STEP 3
45° CUT ON THE
HEAD-TO-TAIL
OVERLAP



STEP 4
FULLY BONDED
APPLICATION



STEP 5
SIDE-TO-SIDE AND
HEAD-TO-TAIL
OVERLAPS



STEP 6
ARRANGEMENT OF
SHEETS FOR WATER
OUTLETS

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** are coated with a uniformly distributed, fine serigraphed talc, a patented treatment 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.

BONDING/PRIMING

All cementitious surfaces must be primed with **abe®bitu.®prime** at a rate of approximately 3.5m²/L. Depending on the of the surface a second coat of primer may be required.

APPLICATION

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, either sheets of **ROLLBASE** or **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.

COVERAGE

Effective coverage: 8,9m²/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**.

TECHNICAL CHARACTERISTICS		
	T	abe® torch-on 4 mm
Weight (EN 1849-1)	±10%	4 kg/m ²
Roll size (EN 1848-1)	≥	1 x 10 m
Reinforcement		'Non-woven' composite polyester fibreglass stabilised with fibreglass
Watertightness (EN 1928 – B method)	≥	60 kPa
• After ageing (EN 1296-1928)	≥	60 kPa
Shear resistance (EN12317-1)	-20%	350/250 N/50 mm
Maximum tensile force Long./Trasv. (EN 12311-1)	-20%	400/300 N/50 mm
Elongation (EN 12311-1)	-15 V.A.	40/40%
Resistance to impact (EN 12691 – A method)		700 mm
Resistance to static loading (EN 12730)		10 kg
Resistance to tearing (nail shank) (EN 12310-1)	-30%	120/120 N
Resistance to tearing (nail shank) (EN 12310-1)	≤	0 °C
Flow resistance at elevated temperature (EN 1110)	≥	100 °C
Reaction to fire class (EN 13501-1)		Euroclass F

PACKAGING

Supplied in rolls of 10m x 1m.

CAUTION

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

HEALTH AND SAFETY

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The safety data sheet is available from your local **a.b.e.® Construction Chemicals** branch.

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 – accept any liability either directly or indirectly arising from the use of **a.b.e.®** products, whether or not in accordance with any advice, specification, recommendation or information given by the company.

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 years in the company's pursuit of excellence in building and construction technology.

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