SAINT-GOBAIN

a.b.e.® Construction Chemicals

# abedex® AT
## Asphalt Tolerant

ELASTOPLASTOMERIC COMPOUND (BPP) AND REINFORCED WITH HIGH WEIGHT POLYESTER NON-WOVEN FABRIC WITH CONTINUOUS STRAND

## DESCRIPTION

**abedex AT** offers increased elongation properties and is resistant to heat ageing, and puncture resistant. The compound is a mixture of distilled bitumen, plastomers and elastomers which give the membrane excellent durability and flexibility at low temperatures (-15 °C).

**abedex AT** is manufactured with a sacrificial Flamina polyethylene film on the underside of the membrane, which prevents sticking when the membrane is stored. The Flamina melts when subjected to heat generated during installation. The underside is embossed to assist in vapour diffusion and as an indicator that the correct melting point has been reached for the adhesion to the primed substrate.

Membranes have been treated with sand finish which prevents sticking when unrolling the membrane during laying and provides a prepared surface for the application of an aluminium reflective coating to the upper membrane surface.

## USES

- **abedex AT**, is a premium product due to its excellent resistance to both heat & abrasion and elongation characteristics. This product can be used in demanding waterproofing applications.
- These applications include concrete bridge decks, pre-fabricated decks and other trafficable areas.

## 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 coating or overlay to be determined by a professional with **a.b.e.®** technical assistance.

**PROPERTIES**

| Type | Reinforcement | Surface finish | Thickness - weight /m² | m²/ Pallet | Weight |
|---|---|---|---|---|---|
| 4 mm | Polyester non-woven fabric with continuous strand | Sand | 4 mm | 200 | 50 kg |

**DIMENSIONAL SPECIFICATIONS**

| | | |
|---|---|---|
| Length | 10 m - 1% (UNI EN 1848-1) - Tex version | Tol. ≥ |
| Width | 1 m - 1% (UNI EN 1848-1) | Tol. ≥ |
| Thickness | UNI EN 1849-1 | Tol. 0.2 mm |

**TECHNICAL CHARACTERISTICS**

| Characteristic | Tolerance | |
|---|---|---|
| Watertightness (UNI EN 1928) | ≥ | 500 kPa |
| Cold flexibility (UNI EN 1109) | ≤ | -15 °C |
| Dimensional stability L (UNI EN 1107-1) | ≥ | -0.5 % |
| Flow resistance at high temperature (EN 1110) | ≥ | 140 °C |
| Flow resistance at high temperature after aging (UNI EN 1296 / UNI EN 1110) | -10 °C | 120 °C |
| Tensile strength L/T (UNI EN 12311-1) | -20 % | 1200/1000 N/ 50 mm |
| Elongation at break L/T (UNI EN 12311-1) | -15 v.a. | 45 %/45 % |
| Water vapour transmission (UNI EN 1931) | - | μ20000 |
| Water absorption (UNI EN 14223) | ≤ | 1.5 % |
| Bond Strength (UNI EN 13596) | ≥ | 0.4 N/mm² |
| Resistance to compaction of an asphalt layer (UNI EN 14692) | - | Passes the test |
| Resistance to dynamic water pressure and after damage by pretreatment (500 Kpa) (UNI EN 14694) | - | Passes the test |

| | | |
|---|---|---|
| UV Ageing (UN EN 1297) | - | Passes the test* |
| Waterproof rating after exposure to chemical agents/artificial ageing (UNI EN 1928 / UNI EN 1847 / UNI EN 1296) | - | NPD |

(*) only 4 mm version with protective paint

## 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.

90 years of product quality and innovation since 1932

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