



a.b.e.® Construction Chemicals

abedex® AR

Anti root 4 mm

ANTI-ROOT ELASTOPLASTOMERIC COMPOUND (BPP) AND REINFORCED WITH AN ADDITIVE (ANTIRADICE) AND SPUNBOUND POLYESTER

DESCRIPTION

abedex AR is a rot and root resistant waterproofing membrane. The anti- root properties of the membrane are achieved by adding Polyglycol chloro-totyl-oxy-propionate additive, a specific anti-root agent, to the polymer bitumen mix.

abedex AR when installed provides a barrier against root penetration even at the overlaps this being due to the fact that the additive is dispersed throughout the matrix.

abedex AR is flexible, has good elongation characteristics and is both root and rot resistant. The root inhibitor will not wash out or leach, nor is it affected by heat generated during the torching operation. The spun bonded polyester reinforcement provides superior puncture resistance characteristics in the membrane.

abedex AR is always used as the final layer and can be in direct contact with soil. When waterproofing gardens, foundations, underground garages, tunnels covered with soil, road structures and under gravel. When waterproofing roof gardens, for instance, it is used as the second layer of a two layer system; the first layer being a 3mm, polyester reinforced membrane and the second layer being **abedex AR** which should be placed on the previous sheet and be fully flame bonded laid on top of previous membrane with staggered laps and be fully torched.

USES

- Specifically developed for waterproofing in buried situations such as earth retaining walls, foundations and green roofs.

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.

- Substrate drainage to be installed using **abedrain** (specification varies to requirements.)

PROPERTIES

Type	Reinforce-ment	Surface finish	Thickness - weight /m ²	m ² /Pallet	Weight
4 mm	Polyester	Sand	4 mm	200	50 kg

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. 0.2 mm

TECHNICAL CHARACTERISTICS

Characteristic	Tolerance	
Watertightness (UNI EN 1928)	≥	60 kPa
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 %	600/450 N/ 50 mm
Elongation at break L/T (UNI EN 12311-1)	-15 v.a.	35 %/35 %
Water vapour transmission (UNI EN 1931)	-	μ20000
UV Ageing (UNI EN 1297)	-	Passes the test
Resistance to root penetration (UNI EN 13948)	-	Passes the test
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.

DATE UPDATED: 17/10/2022

