



a.b.e.[®] Construction Chemicals **abe.[®]drain**

DIMPLED HIGH DENSITY POLYETHYLENE PROTECTION MEMBRANE

DESCRIPTION

abe.[®]drain is a dimpled high density polyethylene (HDPE) protection membrane which offers high resistance to all chemical agents usually found in soil and groundwater and to mechanical compression.

USES

abe.[®]drain is used to protect bituminous membranes in walls, basements and foundations. The product can also be used as separation layers where controlled water flow is required.

Other uses are:

- Terraces.
- Flat roofs.
- Roof gardens.
- Tanking.

ADVANTAGES

- General purpose product.
- Good value.
- A wide range of applications.
- Lightweight for easy application.
- Resistant to chemicals usually found in soil and groundwater.
- Can be used vertically.
- Resistant to mechanical compression.
- Anti root barrier.
- Ventilation.
- Excellent drainage capacity.

TYPICAL PHYSICAL PROPERTIES

| | |
|------------------------------|-------------------------|
| Colour | Black |
| Dimensions of roll length | 20 m |
| Width: | 2,4 m |
| Weight | 500 g/m ² |
| Dimple height | 7,5 mm |
| Elongation at breaking point | 25% |
| Air volume | 5.8 l/m ² |
| Drainage capacity | 2,5 l (m/s) |
| Rolls per pallet | 12 |
| Compression resistance | > 200 kN/m ² |

VERTICAL APPLICATION

The protection of walls:

The surface area must be waterproofed according to **a.b.e.[®] Construction Chemicals** specification. We recommend the application of **Index Fidia P/Indextene** in accordance with **a.b.e.[®] Construction Chemicals** specification. Ensure that the waterproofing membrane is completely covered with **abedrain** for maximum protection. Measure the height of the wall including a flap which must be folded back and wrapped around the drainage pipe. Allow an additional 100mm above the finished ground level before cutting the sheet. Fix the sheet just above the waterproofing membrane with the dimples towards the wall being careful not to damage the waterproofing membrane. The space between the dimples and the wall creates an air chamber allowing air movement to keep the wall dry. Should it be necessary to overlap the sheets then 75mm would be sufficient (3 dimples).

Apply **super laykold waterproofing tape** 100 mm wide along the flat part of the product for this purpose. Place the drainage pipe on the **abe.®drain** after having first placed a layer of drainage material under the pipe. Cover the pipe with some drainage material to keep everything in place before backfilling. Finish off the **abe.®drain** at least 100mm above the finished ground level and cover with a counter flashing.

HORIZONTAL APPLICATION

For the protection of roof gardens:

The surface area must be waterproofed according to **a.b.e.® Construction Chemicals** specification. This is not a primary waterproofing membrane but is recommended for buried dual layer system applications. The first layer consisting of a 3mm torch-on will be **abe® unigum** followed by an antiroot bituminous membrane such as **Index Defend H**. Lay **abe.®drain** with the dimples facing upwards. Should it be necessary to overlap, then 75mm would be sufficient. Apply **super laykold waterproofing tape** 100 mm wide along the flat part of the product for this purpose. Where required place a geotextile membrane loosely on top of the **abe.®drain** before spreading out the soil. This is important as the soil would otherwise fill the dimples and thereby reduce water drainage. Spread out the soil according to the instructions of a qualified landscaper.

For the protection of flat roofs and terraces:

We recommend applying a suitable waterproofing membrane such as **abe® unigum** prior to laying **abe.®drain**. On top of the bituminous membrane lay **abe.®drain** with the dimples upwards. Should it be necessary to overlap, then 75mm would be sufficient. Apply **super laykold waterproofing tape** 100 mm wide along the flat part of the product for this purpose. Place the finishing layer of gravel or concrete tiles on top of **abe.®drain**.

CAUTIONARY NOTE

- Do not butt-joint sheets.

COVERAGE

Install **abe.®drain** as supplied using an overlap of 75mm between the sheets resulting in an overall coverage of 46,5m² per roll.

MODEL SPECIFICATION

The protection membrane will be **abe.®drain**, a dimpled high density protection polyethylene membrane as supplied by **a.b.e.® Construction Chemicals**. The **abe.®drain** will be applied in accordance with the recommendations of **a.b.e.® Construction Chemicals**.

ACCESSORIES

In order to guarantee the quality and characteristics of the **abe.®drain** product, it is recommended to use the range of accessories specifically studied for each purpose. Please consult the technical department at **a.b.e.® Construction Chemicals**.

PACKAGING

abe.®drain is supplied 12 rolls per pallet and wrapped for protection.

HANDLING & STORAGE

The product has no expiry date. Keep out of direct sunlight for extensive periods. No heavy loads are to be placed or packed on top of the product.

HEALTH & SAFETY

No known hazards.

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.

