

# Tefond Drain Plus

Dimpled high density extruded polyethylene (HDPE) membrane with a double interlocking joint and sealant combined with a geotextile in polypropylene.

## DESCRIPTION

**Tefond Drain Plus** is a dimpled high density extruded polyethylene (HDPE) membrane with a double interlocking joint and sealant combined with a polypropylene geotextile on raised 8mm dimples for drainage and waterproofing.

## USES

**Tefond Drain Plus** is used as a waterproofing and drainage membrane in roof gardens, face walls and tunnels. Due to its physical structure, it filters and drains water in the soil preventing saturation in roof gardens. For roof garden applications the product must be used in conjunction with a protective anti root membrane such as **Index Defend H**. In face wall applications **Tefond Drain Plus** drains water to the bottom of the foundation walls through the air chamber between the membrane and the polypropylene geotextile. It also protects the bituminous membrane from damage. Other uses are:

- Tanking
- Road tunnels

## FEATURES AND BENEFITS

- Incorporated sealant offers extra waterproofing protection.
- Vertical installation for drainage and protection of the waterproofing membrane.
- Exceptional drainage capacity.
- Lightweight product making it easy to install.
- Mechanical resistance.
- Chemical resistant.
- Secondary waterproofing system.
- Filtration
- Double mechanical joint.

TYPICAL PHYSICAL PROPERTIES	
Colour	Black
Dimensions of roll	
Length	20m
Width	2,4m
Weight	780 gr/m <sup>2</sup>
Dimple height	8mm
Elongation at breaking point	20% ( Tefond Drain Plus) 50% (Geotextile)
Air volume	5,7 l/m <sup>2</sup>
Working conditions	-30°C to + 60°C
Tensile breaking load	900N/5cm (Geotextile) > 350N/5cm (Tefond Plus)
Compression resistance	> 300kN/m <sup>2</sup>
Water permeability of the geotextile	17 l/ m <sup>2</sup> s
Geotextile weight	85gr/m <sup>2</sup>
<b>Tefond weight</b>	<b>660gr/m<sup>2</sup></b>

## INSTALLATION

### The drainage and waterproofing of roof gardens:-

The surface area must be waterproofed according to **abe 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 **abedex / Unigum** followed by an anti-root bituminous membrane such as **Index Defend H**. Lay **Tefond Drain Plus** with the dimples upwards. When forming the overlap firstly remove the protective strip covering the sealant. Use a rubber mallet by hitting the dimples to obtain an interlocking fix. The interlocking joint is found on the side of the sheet. Spread out the soil according to the instructions of a qualified landscaper.

### The drainage and waterproofing of walls:-

The surface area must be waterproofed with **Fidia P/ Indextene** according to **abe Construction Chemicals** specification. 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 with the dimples and the geotextile towards the soil. When forming the overlap firstly remove the protective strip covering the sealant. Use a rubber mallet by hitting the dimples to obtain an interlocking fix. The interlocking joint is found on the side of the sheet. To join the drainage pipe to the inside of the geotextile detach the geotextile from the **Tefond** up to 1m in height. Place the drainage pipe on the **Tefond** after having first placed a layer of drainage material under the pipe. Wrap the detached geotextile under the pipe. Cover the pipe with some drainage material to keep everything in place before backfilling. Finish off the **Tefond** at least 100mm above the finished ground level and cover with a counter flashing.

### CAUTIONARY NOTE:

- Do not but joint sheets.

Revision 02206



abe is an ISO 9002 Registered Company.

## Technical data sheet

abe Construction Chemicals (Pty) Ltd. P.O. Box 23053, Isipingo, 4110, South Africa. 7 Wilcox Road, Isipingo, 4110 Tel. (031) 913 5400

## COVERAGE

The coverage including a 200 mm double overlap is 44m<sup>2</sup> per roll.

## MODEL SPECIFICATION

The drainage and waterproofing membrane will be **Tefond Drain Plus** a dimpled high density extruded polyethylene membrane with a double interlocking joint and sealant combined with a geotextile in polypropylene as supplied by **abe Construction Chemicals**.

The **Tefond Drain Plus** will be applied in accordance with the recommendations of **abe Construction Chemicals**.

## MODEL SPECIFICATION

The drainage and waterproofing membrane will be **Tefond Drain Plus** a dimpled high density extruded polyethylene membrane with a double mechanical joint and sealant incorporated combined with a geotextile in polypropylene as supplied by **abe Construction Chemicals**.

The **Tefond Drain Plus** will be applied in accordance with the recommendations of **abe Construction Chemicals**.

## ACCESSORIES

In order to guarantee the quality and characteristics of the **Tefond Drain Plus** product, it is recommended to use the range of accessories. Please consult the technical department at **abe Construction Chemicals**.

## PACKAGING

**Tefond Drain Plus** is supplied 12 rolls per pallet, 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 **abe Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **abe** has no direct or continuous control over where and how **abe** products are applied - accept any liability either directly or indirectly arising from the use of **abe** 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. **abe 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.

Revision 02206



abe is an ISO 9002 Registered Company.



DIRECTION GÉNÉRALE  
Jonquet Face MTN Internet  
Tél.: (+229) 21 33 33 48  
95 96 00 08

04 B P : 0526 Cotonou  
contact@hpbbenin.com  
www.hpbbenin.com

DIRECTION COMMERCIALE  
HBP New City  
Maro Militaire à côté de Toxi Lobo  
Tél.: (+229) 21 32 48 48  
95 02 72 72 - 94 00 61 61

## Technical data sheet

abe Construction Chemicals (Pty) Ltd. P.O. Box 23053, Isipingo, 4110, South Africa. 7 Wilcox Road, Isipingo, 4110 Tel. (031) 913 5400