



constructive solutions

Proofex Engage*

Pre-applied HDPE waterproofing membrane (which mechanically bonds to poured concrete slabs, remaining in place if settlement of substrate occurs)

Uses

- Basement waterproofing protection to grades 2, 3 and 4 as defined in BS8102:1990
- To provide a vapour and waterproof membrane in building and civil engineering structures
- Resistant to attack from chemicals and aggressive ground salts
- Forms a tenacious mechanical bond to poured concrete remaining in place if settlement of the substrate occurs
- Simple application - no primers or protection material required
- Inert product - no risk of a reaction with ponded water prior to concrete being poured
- Durable - withstands inclement weather and resists construction related damage. Can be trafficked immediately after application
- Facilitates flexible construction programming
- Full range of Fosroc hydrophilic and PVC waterstops available to provide complete solution to waterproofing of the structure

Standard compliance

- British Standard 8102:1990 - code of practice for 'Protection of Structures against Water from the Ground'

Description

Proofex Engage is a unique patented system comprising a complex cell mesh bonded to a polyethylene membrane which allows poured concrete to interlock with the membrane forming a tenacious mechanical bond.

Proofex Engage is supplied with a selvedge on one side to provide sealed laps.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Typical Properties

Tensile strength (peak) (ASTM D412)	: 11.6 N/mm ²
Elongation (peak) (ASTM D412)	: 648%
Puncture Resistance (ASTM E154)	: 672 N
Peel Adhesion to mortar (BS 4254)	: 74 N/25 mm wide strip
Shear strength of Joints (M.O.A.T.No.27:5.2.2)	
Selvedge	: 377 N/50 mm wide strip
Detail Strip	: 506 N
Hydrostatic pressure resistance – up to 70 m head of water (ASTM D5385)	
Membrane	: No leak after 1 hour
Selvedge	: No leak after 1 hour
Detail Strip	: No leak after 1 hour
Hydrostatic pressure resistance – Non tracking (ASTM D5385 – with a 4 – 6 mm² cut in membrane)	
60 m head of water	: 77 mm ² after 1.5 hours
70 m head of water	: 188 mm ² after 1.5 hours
Water vapour permeability (BS 3177)	: 0.08 gm ⁻² 24 hours ⁻¹

Application instructions

Substrate preparation

Horizontal application - the membrane must be applied to smooth prepared concrete or onto a compacted sand blinding on granular fill. The substrate shall be free from loose aggregate or other sharp protrusions. Standing water must be removed to prevent contamination of overlaps and subsequent compromise of waterproof properties.

Membrane installation

Cut the membrane to a convenient length for installation. Carefully align the membrane and roll it out with the ribbed surface uppermost. Lay the adjacent sheets accurately so they overlap the previous sheet 75mm along the adhesive selvedge. The overlaps should be firmly rolled to ensure complete adhesion between layers.

If cold or damp conditions prevail the selvedge adhesive may be tackified by wiping with Fosroc Solvent 102. Proofex Engage Detail Strip may be gently warmed with a slack flamed gas torch or heat gun to remove moisture and promote initial adhesion in cold or humid conditions. This procedure may also be used to assist bending Proofex Engage through 90 degrees at the floor to wall junction.

Proofex Engage*

Vertical Surface Waterproofing

Where vertical surface waterproofing is required, in conjunction with a Proofex Engage slab waterproofing system, two layers of Proofex 12X*† are to be employed.

For Proofex 12X*† application details, please see the product data sheet.

Ancillary products

Proofex LM

A two component applied liquid membrane for sealing around intricate details such as pipe entries, penetrations, pile caps, etc.

Proofex Engage Detail Strip

A reinforced, double sided waterproof adhesive tape for sealing and jointing roll ends, cut edges and wall to floor detailing, sold in packs of two.

It consists of a strong synthetic fibre fabric impregnated and coated both sides with a bitumen rubber adhesive.

Each side of the tape is protected by a removable plastic film.

Proofex LM Mesh

A reinforced mesh used in conjunction with Proofex LM for areas of extreme loading (coving, edges and pipe penetrations).

Estimating

Proofex Engage

Thickness	: 4 to 5 mm (0.8 mm excluding grid section)
Roll width	: 1.27 m
Edge laps	: 75 mm
End lengths	: Butt jointed
Roll weight	: 58 kg

Proofex Engage Detail Strip

Thickness	: 1.5 mm
Roll width	: 240 mm
Roll length	: 10 m
Roll weight	: 4 kg
Pack weight	: 8 kg

Proofex LM

Average thickness	: 3.3 mm
Pack size	: 28 kg
Coverage at 4mm thick	: 7 m ²

Proofex LM Mesh

Thickness	: 1 mm
Width	: 508 mm
Length	: 15 m

Storage

Store in original unopened packaging, in cool dry conditions, away from sunlight.

Precautions

Health and safety

There are no known health hazards associated with Proofex Engage in normal use.

Proofex Engage weighs approximately 60kg and should be lifted by a minimum of three site operatives.

* Denotes the trademark of Fosroc International Ltd.

† See separate data sheet



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service.

Fars Iran Limited

No. 9, 25 th St., Khaled Eslamboli
(Vozara) Ave., Tehran 15139 - Iran

telephone:
+98 (21) 88719021

fax:
+98 (21) 88721664

email:
iran@fosroc.com

www.fosroc.com



Cert No. THR2004006