



# Proofex Engage

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

## Uses

- Range of waterproofing applications including basements and substrates
- Proofex Engage provides a water, water vapour and gas protection to structures and protects concrete from aggressive ground salts and chemicals.

## Advantages

- 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 waste prior to concrete being poured
- Durable - withstands inclement weather and resists construction related damage. Can be trafficked immediately after application.
- Facilitates flexible construction programming
- Can be heat-welded

## Description

Proofex Engage is a unique patented system comprising 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 available in two colours, black and grey. The grey is specifically designed for use in Middle East and Tropical conditions.

## Standard compliance

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

## Typical Properties

<b>Elongation (peak)* (ASTM D412)</b>	<b>: 600%</b>
<b>Puncture resistance (ASTM E154)</b>	<b>: 600N</b>
<b>Peel Adhesion to concrete (BS4254)</b>	<b>: 74 N/50 mm wide strip</b>
<b>Shear strength of Joints (M.O.A.T No. 27:5.2.2)</b>	
<b>selvedge</b>	<b>: 377 N/50mm wide strip</b>
<b>Detail Strip</b>	<b>: 506 N</b>
<b>Hydrostatic pressure resistance-upto 70m head of water (ASTM D5385)</b>	
<b>Membrane</b>	<b>: No leak after 1 hr</b>
<b>Selvedge</b>	<b>: No leak after 1 hr</b>
<b>Detail strip</b>	<b>: No leak after 1 hr</b>
<b>Water vapour permeability (BS3177)</b>	<b>: 0.08g m<sup>2</sup></b>

\* refers to backing membrane only

## Application Instructions

### Surface 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 68mm along the adhesive selvedge. When laying adjacent full rolls there should be a stagger of half a roll length to avoid a build up of end joints in one area.

End joints and cut edges - butt join the Proofex Engage sheets onto Proofex Engage Detail Strip. The top surface of the joint can be further sealed with Proofex LM reinforced with Proofex LM Mesh. This overseal should extend 75mm either side of the formed joint.

All overlaps and joints should be firmly rolled to ensure complete adhesion between layers.

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If cold or damp conditions prevail the selvedge adhesive may be tackified by wiping with Fosroc Solvent 102, Proofex Engage detail strip or selvedge may be gently warmed with a slack flamed gas torch or heat gun to promote initial adhesion in cold or humid conditions. This procedure may also be used to assist bending through 90°C.

## Combination Waterproofing systems

Where combination waterproofing systems are required, in conjunction with a Proofex Engage waterproofing system two layers of Proofex 12 can be employed. For Proofex 12 application & CAD details, please contact your local Fosroc representative.

## Important note

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## Ancillary products

### Proofex LM

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

### Nitoseal MS300

A one part tough, flexible sealant/adhesive for sealing around intricate details.

### 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 (coverings, edges and pipe penetrations).

### 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.

### Estimating

#### Proofex Engage

Thickness	: 4 to 5mm (0.8mm excluding grid section)
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Roll width	: 1.27m
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Roll length	: 30m
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Edge laps	:
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End lengths	: Butt jointed
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Roll weight	: 58 kg
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#### Nitoseal MS300

Pack Size	: 10 nos x 600ml sachets per box
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#### Proofex Engage Detail strip

Thickness	: 1.5mm
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Roll width	: 200mm
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Roll length	: 10m
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Roll weight	: 4kg
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Pack weight	: 4kg
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#### Proofex LM

Average thickness	: 3.3mm
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Pack size	: 28kg
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Coverage at 4mm thick	: 7m <sup>2</sup>
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#### Proofex LM Mesh

Width	: 100mm
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Length	: 50m
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## Fosroc Chemicals (India) Pvt. Ltd.

### Head Office

"Sapthagiri Palace", No.38,  
II & III Floor, 12th Cross,  
CBI Road, Ganganagar North,  
Bangalore 560 032

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### telephone

++91 80-23551500

### fax

++91 80-23551510

### e-mail

enquiryindia@fosroc.com

### Regional Offices

#### Bangalore

"Sapthagiri Palace", No. 38  
II & III Floor, 12th Cross,  
CBI Road, Ganganagar North,  
Bangalore 560 032.  
Ph:080-23551500  
Fax : 080-23551510

#### Mumbai

1401/1402, 14floor,  
A-Wing'The Great Eastern Summit'  
Sector-15, CBD, Belapur  
Navi Mumbai 400 614  
Ph: 022 -43406800-04

#### Delhi

D-166 Sector 10  
Noida,  
UP 201 301  
Ph:0120-4270620  
Fax: 033-2499-0280

#### Kolkata

304, Jodhpur Park  
Kolkata 700 068  
Ph:033-65343188

[www.fosroc.com](http://www.fosroc.com)

