



constructive solutions

## FULLY-BONDED WATERPROOFING MEMBRANE

# PROOFEX<sup>®</sup> ENGAGE

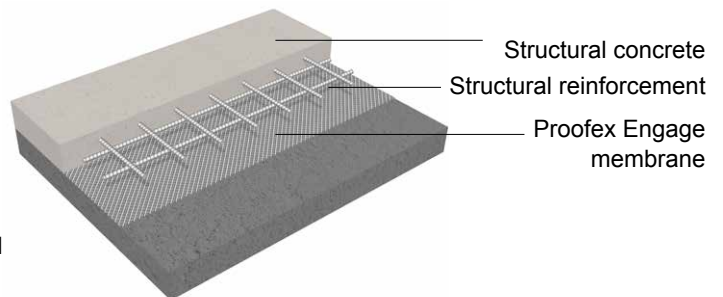
### Innovative, anti-tracking, pre-applied waterproofing system.

For below-ground structures where the exterior face of the structural concrete is inaccessible, the waterproofing must be applied prior to pouring the concrete. Loose-laid or self-adhesive systems are applied to the substrate not the structural concrete, this means there is no seal between the waterproofing and the structural concrete, if there is a leak water can track between the waterproofing and the structure. A similar problem occurs where ground settlement takes place.

Fosroc Proofex Engage is a proprietary, innovative, pre-applied waterproofing system that incorporates a unique cell mesh which mechanically bonds to freshly placed concrete, giving a tenacious waterproof seal and preventing water migration even if ground settlement occurs.

### ADVANTAGES

- Unique mesh system bonds permanently to concrete, remaining in place even if settlement takes place
- No water-tracking
- Simple and quick to install - no protection film to remove
- Methane and CO<sub>2</sub> protection as defined in BRE Report 212
- Radon protection as defined in BRE Report 211
- Protects concrete from attack from chemicals, hydrocarbons and aggressive ground salts in contaminated sites
- Simple application - requires no primer or protection, blinding concrete may be eliminated
- Immediately trafficable
- Root resistant
- Basement waterproofing protection to grades 1, 2 and 3 as defined in BS8102:2022
- BRANZ appraised



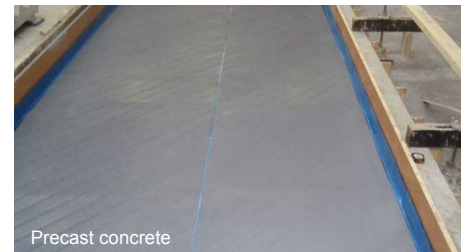
### TYPICAL APPLICATIONS:



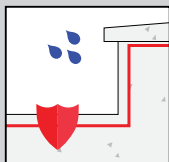
Walls



Floors



Precast concrete



Waterproofing

For further information about our waterproofing range visit [www.fosroc.com.au](http://www.fosroc.com.au) or [fosroc.co.nz](http://fosroc.co.nz)  
Always refer to the product TDS before making your final selection or speak to your Fosroc representative.

# Fosroc Proofex® Engage

## Properties

Test Method	Standard	EN13967 Requirement	Result
Watertightness to liquid water	EN 1928 Method A	No evidence of water penetration @ 6m head	Pass Also ASTM D5385 passed at 69m
Resistance to static loading	EN 12730 method B	-	20kg
Tensile properties (membrane sheet only): Tensile strength/elongation at break/elongation at peak load:	EN 12311-2	-	Transverse: >10.0 MPa / >600% / >600% Longitudinal: >18.0 MPa / >800% / >800%
Tensile properties (composite sheet plus mesh): Tensile strength/ elongation at break/ elongation at peak load:	EN 12311-2 *Tensile strength based on sheet thickness	-	Transverse: >7.0 MPa / >120% / >15% Longitudinal: >9.0 MPa / >140% / >50%
Crack bridging:	ASTM C1305 modified	-	up to 5mm (100 cycles)
Durability of watertightness against ageing	EN 1296 / EN 1928	-	Pass
Resistance to impact Puncture resistance Resistance to roots	EN 12691 Method A ASTM E154-08 EN/TS 14416	-	1500 mm. 672N Pass
Resistance to tear (nail shank)	EN 12310-1	-	720 N (longitudinal)
Reaction to fire	EN ISO 11925-2	-	Pass
Lapped joint strength	EN 12317-2	-	≥ 400 N
Water vapour transmission	EN 1931	-	Water vapour resistance factor u = 580000 Equivalent air layer thickness S <sup>d</sup> = 400 metres
Resistance to alkali	EN 1847 / EN 1928	Watertight @ 2kPa @ 60kPa	Pass Pass
Length Width Thickness Mass Straightness Visible defects	EN 1848-2	-	33 metres 1.15 metres 4-5mm overall 1.54 kg/m <sup>2</sup> <75 mm per 10 metre length Free from visible defects
Methane permeability	BS ISO 15105-1:2007	-	127ml-m <sup>2</sup> -day <sup>-1</sup> -atm <sup>-1</sup> (unjoined)
CO <sub>2</sub> permeability	Rilem Report 12	-	<5.12 E-13 m <sup>2</sup> /sec/Pa
DC Resistance or Conductance of insulating materials - volume resistivity	ASTM D257-14(2021) e1	-	1325526 x 10 <sup>11</sup> ohm-cm

Clarification of property values: The typical properties given above are derived from laboratory testing. Results derived from field applied samples may vary.

## Supply Including Proofex Engage ancillary products

Product code	Description	Size
FC007074-UNIT	Fosroc Proofex Engage	1.15m x 33.1m long roll
FC007077-UNIT	Fosroc Proofex "L" section	125mm x 125mm x 10m long roll
FC007072-UNIT	Fosroc Proofex Engage 'External' corner	125mm x 125mm x 125mm
FC007073-UNIT	Fosroc Proofex Engage 'Internal' corner	125mm x 125mm x 125mm
FC007071-UNIT	Fosroc Proofex Detail Strip	200mm x 1.5mm x 10m long roll
FC007078-UNIT	Fosroc Proofex Top Hat – diameter 110mm	330mm x 330mm
FC007079-UNIT	Fosroc Proofex Top Hat – diameter 160mm	380mm x 380mm
FC007082-600ML	Fosroc Polyurea SCS Gun Grade	2 x 300ml cartridge (600ml)
FC007094-UNIT	Fosroc Polyurea SCS - Static Mixing Nozzles	N/A
FC007087-UNIT	Fosroc Polyurea WCS - Manual Gun	N/A

## Standard Compliance

BRANZ Appraised:  
Appraisal No. 1035 (2018)

Independently certified performance,  
BBA Certificate No. 03/4042.



BS EN 13967:2004 - Flexible sheets for waterproofing - Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet. Type A and Type T.

British Standard 8102:2022 - Code of Practice for 'Protection of Structures against Water from the Ground' classes 1, 2 and 3.

Green Label Singapore labelling scheme - approved as "environmentally preferred coating".



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EN 13967:2012 – Flexible sheets for waterproofing - Plastic and rubber damp proof sheets including plastic and rubber basement tanking systems

Class	Type A and Type T
Watertightness	Pass
Resistance to impact	>1.5m
Dangerous substances	Conforms with 5.17
Resistance to static load	20kg
Elongation at break	L >140%, T >120%
Tensile properties	L >9N/mm <sup>2</sup> , T >7N/mm <sup>2</sup>
Water vapour resistance after ageing	Pass
Resistance to tearing	720N (longitudinal)
Shear resistance of joints	>400N lap
Water vapour properties	S <sup>d</sup> = 400m

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