Fosroc Membrane HDPE-S

constructive solutions

Post Applied Self Adhesive waterproofing membrane for vertical reinforced concrete members for below ground structures.

Uses & Advantages

- Basement waterproofing protection to grades 1,2 and 3 as defined in BS 8102: 2009 & IS 16471 : 2017
- To provide a vapour and waterproof membrane in building and civil engineering structures
- Very good bonding with concrete.
- Simple application - no primers or protection material required.
- Inert product - no risk of a reaction with ponded waste present in the soil after backfiling
- Facilitates flexible construction programming.
- Full range of Fosroc hydrophilic and PVC waterstops available to provide complete solution to waterproofing of the structure.

Description

Fosroc Membrane HDPE - S is a post applied high performance self adhesive HDPE membrane for waterproofi ng application for retaining walls, RC members and basement substructures.

Fosroc Membrane HDPE-S provides water, water vapour protection to water excluding structures and protects concrete from aggresive ground salts, chemicals and hydrocarbons.

Fosroc Membrane HDPE-S is supplied as a membrane with 1.2mm thickness having a self adhesive glue which helps in bonding to all the casted RC members.

Standard compliance

British Standard 8102:2009 & Indian Standard 16471 : 2017 - code of practice for 'Protection f Structures against Water from the Ground'.

Specification Clauses

The waterproof tanking membrane shall be Fosroc Membrane HDPE-S, self adhesive waterproofing membrane consisting of HDPE-film and self adhesive glue which bonds to cured RC members.

The membrane shall be supplied with one self-adhesive selvedge to provide sealed laps and comply with British Standard 8102 2009 - Code of practice for 'Protection of Structures Against Water from the Ground' to provide basement waterproofing protection to grades 1,2 and 3.

Technical Properties

Physical properties	Typical values
Thickness	1.2mm & 1.5mm
Tensile strength film (ASTM D412)	21± 5 Mpa
Elongation (ASTM D412)	> 400%
Puncture resistance (ASTM D412)	> 600 N/m
Peel Adhesion to concrete (ASTM D903 Modified	> 880 N/m
Resistance to hydrostatic head (ASTM D751-06 (2011)	> 70 mtr

Clarification of property values :

The typical properties given above are derived from laboratory testing. Results derived from fi eld applied samples may vary.

Application instruction

Surface preparation

Vertical application: All concrete surfaces must be wood float or shutter finish and free from cavities or projections. All honey combs, cracks, surface defects and tie rod holes should be repaired using structural grade Fosroc Renderoc repair series. All surfaces must be clean, dry and free from contamination, ice and frost. The substrate shall be free from loose aggregate or other sharp protrusions.

The surface should be dry enough, moisture content to be <5% to have a neat bonding with the erected membrane.

Membrane Installation

Cut the membrane to a convenient length for installation. Carefully align the membrane and roll it out with printed coated side facing the concrete. Lay adjacent sheets accurately so they overlap the previous sheet 75mm along the selvedge. When laying adjacent full rolls there should be stagger of half a roll length to avoid a build up of end joints in one area. The end joints should be done with 100mm overlap.

Start from the bottom of the wall and work progressively removing the release paper in stages.

Peel of the release fi lm carefully without disturbing the alignment and press the membrane against the RC member firmly.

The membrane should be thoroughly rolled through out the length along with overlaps and joints to ensure complete adhesion between lyers and the RC member

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Penetrations

Penetrations e.g pipe entries through Fosroc Membrane HDPE-S, require special attention to detail. Refer to more information on details

Backfilling

Backfilling material must be free from sharp objects and debris that could damage the Fosroc Membrane HDPE-S. It should not contain house bricks, blocks or boulders larger than 50 mm.

Contaminated ground

Fosroc Membrane HDPE-S is suitable for use in many contaminated ground applications eg hydrocarbons, salts etc. Consult local Foroc office for specific advice.

Ancillary products

Fosroc Membrane HDPE Sealed Tape

Double-side Adhesive Flashing tape has two layers of adhesive which bond respectively to the HDPE surface.

The specially developed Fosroc Membrane HDPE Sealed Tape work together to form a continuous and integral seal to the structure.

Fosroc Membrane HDPE Sealed Tape is an 100mm wide tape used in detail areas including end laps and various tie-ins. It is also used to patch damaged areas in the Fosroc Membrane HDPE-S.

Estimating

Fosroc Membrane HDPE-S

Roll size : 1.0 x 20m

Fosroc Membrane HDPE Sealed Tape

Width : 100 mm

Length : 10 m

Storage

Store in original unopened packaging in cool dry conditions, away from sunlight in a fl at position.

Precautions

Health and Safety

For further information refer to appropriate Product Safety Data Sheets available at www.fosroc.com.

Complete rolls sould be handled by minimum two persons

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