

Proofex 12

(Formerly Proofex 12X)



constructive solutions

Heavy duty self adhesive cross laminated bituminous waterproofing membrane

Uses

To provide a continuously bonded waterproof membrane for building and civil engineering structures.

Advantages

- 2mm thick (Nominal)
- Cold applied
- Fast application
- Uniform thickness of polymer bitumen membrane
- Good adhesion to primed concrete substrates.
- Produces a continuous waterproof membrane system
- Cross laminated film for superior performance

Description

Proofex 12 is a cold applied self-adhesive sheet membrane comprising of a polymer modified bitumen layer internally reinforced with polyester, bonded on to an outer surface of polyethylene film.

The polymer bitumen adhesive layer is protected on the underside by a silicone release paper which is removed just prior to the application of Proofex 12 to the tack coat primed substrate.

The applied membrane is then immediately protected from UV light and from mechanical damage during subsequent back filling by the application of Protection Board, or a sand/cement screed.

Specification

The waterproofing membrane shall be a 2mm thick self adhesive sheet membrane comprising of a polymer modified bitumen layer internally reinforced with polyester, bonded on to an outer surface of polyethylene film. The polymer modified bitumen shall have an elongation in excess of 2000% when tested in accordance with ASTM D412.

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.

Properties

Tensile strength (UEAtc) : Long 680 N/5cm
Trans 625 N/5cm

Elongation of membrane (UAETc) : Long 43%
Trans 58%

Elongation of compound (ASTM D412) : >2000%

Tear resistance (UEAtc) : Long > 245N/mm
Trans > 243N/mm

Adhesion to primed concrete (ASTM D1000) : 2.5 N/mm

Adhesion to self (ASTM D1000) : 2.1 N/mm

Chemical resistance (ASTMC543) : Conforms

Instructions for use

Surface preparation

Concrete surfaces should be float finished and free from cavities and projecting nibs. All surfaces shall be dry and free from frost, surface laitence and contamination.

Priming

Proofex Tack Coat 6HT must be applied to the substrate and allowed to dry until it is tack free, prior to the application of the membrane. All surfaces must be re-primed if left for more than 24 hours prior to the application of Proofex GP.

Application

Smooth transition should be made at wall/floor slab junctions using a sand/cement mortar and internal and external corners at walls and upstands pre-protected with Proofex Corner Pieces prior to the application of the membrane.

The membrane should be applied to the substrate having first removed the siliconised release paper, pressing the polyethylene film firmly ensuring that the adhesive bitumen compound bonds continuously to the substrate with no air pockets.

Allow at least a 75mm edge and a 150mm end lap. All laps should be rolled firmly to achieve a good seal. End laps should be staggered.

On vertical or inclined surfaces, the membrane shall be laid from the lowest level upwards.

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The membrane should be protected immediately after application in accordance with BS 8102:1990 by using Protection Board or as appropriate with a sand/cement screed.

Proofex 12 and Proofex Engage

When used in conjunction with the Proofex Engage heavy duty waterproofing system, vertical surfaces are to be protected with two layers of Proofex 12 and Protection Board. The local Fosroc office will provide drawings for the joining detail between Proofex 12 and Proofex Engage.

Limitations

Application temperature range : 5°C - 50°C.

For application below 15°C it may be necessary to slightly warm the back of the membrane to achieve an immediate bond. In cold conditions the membrane should be stored at temperatures above 20°C prior to application to facilitate ease of application and immediate bond to the substrate.

Estimating

Supply

Proofex 12 : 15 m long x 1m wide roll

Proofex Tack Coat 6HT : 20 and 200 litre drums

Coverage

Proofex Tack Coat 6HT : 3-6m² per litre

Storage

All product have a shelf life of 12 months if stored in a cool, dry store, away from sources of heat, in the original unopened packing. It should be stored horizontally, not more than one pallet high.

Precautions

Health and safety

There are no health hazards associated with the use of Proofex 12.

If proofex Tack Coat 6HT is swallowed, do not induce vomiting - drink a glass of water. If contact with eyes occurs, flood with copious amounts of clean water for at least 15 minutes and seek medical advice. If on the skin, remove any contaminated clothing and wash skin thoroughly.

For further information, please consult Material Safety Data Sheets for the above products.

Fire

Proofex Tack Coat 6HT contains volatile, flammable solvents. Do not smoke in the presence of these products. Use only in ventilated areas, well away from any ignition source.

Flash points

Proofex Tack Coat : > 38°C



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