

DualProof C Membrane

Product Information Page

DualProof C Membrane:

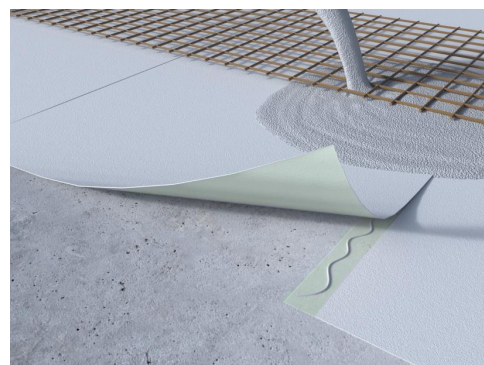
DualProof C Membrane consists of a special non-woven PP-Fleece, which is co-extruded with a highly flexible, water and gas resistant, soft PVC membrane. The fresh concrete forms a mechanical bond with the PP-Fleece and provides protection against water, gases and ground contaminants. The DualProof C Membrane System is new generation technology, it is specifically designed for the waterproofing and protection of below ground reinforced concrete.

DualProof C Membrane is designed to perform for the lifetime of the structure provided it is not damaged by subsequent building operations.

Specification Tip for Design Professionals:

DualProof C Membrane may be specified by name or by using the following description: *a propriety composite waterproofing membrane, consisting of a special non-woven PP-Fleece, which is co-extruded with a flexible soft-PVC sheet. The fresh concrete forms a mechanical bond with the PP-Fleece and provides protection against water, gases and ground contaminants. The system is especially designed for the waterproofing and the protection of below ground reinforced concrete structures.*

- ✓ Forms a permanent mechanical bond with freshly poured concrete
- ✓ No water tracking between the membrane and the concrete
- ✓ Tested up to 6.9 bar
- ✓ Crack bridging capacity up to 3.2mm.
- ✓ No requirements for complicated welding equipment
- ✓ Provides all Grades of Protection according to BS 8102: 2009
- ✓ Lightweight and versatile, easy on-site handling
- ✓ May be installed in all weather conditions
- ✓ Protects concrete against salt and sulphate attack
- ✓ Unaffected by ground settlement
- ✓ May be used in salt-water conditions
- ✓ *Offers protection against Radon in accordance with BS 8485: 2015
- ✓ Several independent test-reports
- ✓ Designed and manufactured in Germany



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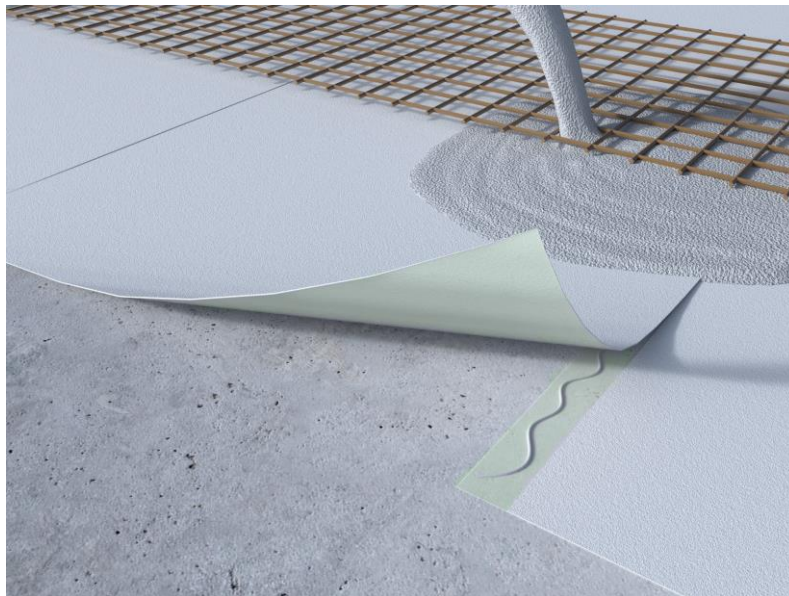
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How does DualProof C Membrane work:

DualProof C Membrane is a pre-applied product, when the fresh concrete is placed, it achieves a complete mechanical bond with the unique PP-Fleece on the membrane and provides protection against water, ground gases and contaminants. Prevents.

How do I prepare the surface prior to application of The DualProof C Membrane :

All surfaces onto which the DualProof C Membrane is to be applied should be sound, solid and free sharp objects and gaps or voids that are greater than 12mm. All corners, up-stands, pipe/service penetrations etc. must be detailed correctly (please consult our Technical Department for further advice) prior to the application of the membrane.



Note: DualProof C Membrane is designed for use with structural reinforced concrete. The concrete should be designed by a Structural Engineer to EN 1992. Please ensure that the concrete is placed and cured correctly, and that all non-movement construction joints are detailed with CEMflex Active Waterstop. Please consult our Technical Department for advice on the detailing Movement Joints and Non-Movement Joints.

Pre-Application under-slab

DualProof C Membrane should be placed onto the properly prepared substrate, with the PP-Fleece facing towards the concrete which is to be waterproofed. The edges of the membrane should be overlapped by a minimum of 50 mm and the ends of the rolls staggered by a minimum of 300mm. All overlaps should be sealed using DualProof MS Polymer Adhesive, or by using suitable heat-welding equipment.

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The installed membrane should be inspected for damages prior to the placement of the concrete. In the unlikely event of damage occurring to the membrane, repairs may be completed by simply placing a patch of membrane over the damaged area and bonding with DualProof MS Polymer Adhesive.

The installed membrane may be cleaned using a soft -brush , an oil-free air system or a low-pressure system using cold water if required. All standing water or any construction debris must be removed from the membrane prior to placing the concrete.

Note: All detailing such as overlaps, non-movement construction joints, movement joints, tie-holes, ground anchors, pipe penetrations etc, must be completed as per the method statement provided.

How do I install DualProof C Membrane inside the formwork:

- The Formwork should be flat, clean and free from voids that are >12mm.
- Using a sharp blade cut the membrane into lengths that are 50mm longer than the full height of the formwork.
- Place the membrane with the fleece side facing towards the concrete to be waterproofed.
- The membrane should be placed with the surplus 50mm hanging over the top of the formwork, and secured with a timber batten to the top or the back of the formwork.
- It is important that the membrane is placed flat against the formwork, if required small wire staples may be placed at 500mm centres with a distance of 20mm in from the edge of the membrane.
- Using a clean dry cloth wipe the clear edge of the installed membrane, place the next length of membrane in the same manner, ensuring that the edge overlaps and the clear edge of the previously applied membrane is covered with "fleece".
- Place a bead of DualProof MS Polymer Adhesive over the clean clear edge, and compress the overlap using a wooden roller. Alternatively, a heat-welding system may be used to seal the overlaps.
- In advance of pouring the concrete inspect the membrane for damages.
- Remove the formwork when the concrete has achieved a minimum strength of >10Nmm².
- **Note:** All detailing such as overlaps, non-movement construction joints, movement joints, tie-holes, ground anchors, pipe penetrations etc, must be completed as per the method statement provided.

Backfilling:

- It is advisable to install a protection board such as SURFASDRAIN over the installed DualProof C Membrane prior to backfilling.
- Backfill should be clean filling and free from sharp objects or construction debris.
- Do not use stones or filling that are larger than 50mm.
- Backfill should be compacted every 300mm as defined by ASTM 1557.
- For further information please contact our Technical Department.

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Storage:

- DualProof C Membrane should be stored off the ground in its original manufacturers packaging in dry conditions above 5°C.

Test Results:

- CE Marking DIN EN 13967
- CE Marking DIN EN 13491
- In regarding to the German DIN 18195 Standard-new DIN 18533
- German DIN / TS 20000-202 approved
- General German Test Report / abP
- General German Test Report PG-ÜBB / abP
- CPR Certificate (the Construction Products Regulation) -EN 13967:2004 + A1:2006
- British standard BS 8102:2009 and Kiwa Certificate
- BDA Agrément Certification according to British standard BS 8102:2009 and NHBC

*"The membrane is independently tested and approved for use as a barrier against Radon Gas. In applications where methane or CO2 resistance is required Dualproof C Membrane will act as barrier, against these ground gases, when installed in accordance with BRE Report 414 the membrane will be compliant with the recommendations made in CIRIA C665 : 2007 Assessing risks posed by hazardous ground gases to building, BS 8485 : 2015, BREReports211 & 212 and NHBC Standards. Guidance is given in the Ground Gas Handbook, 2009 and the manufacturer's technical literature."

Please protect the environment: Dispose of waste in accordance with the local authority regulations.

Disclaimer: The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However, the client is obliged to determine themselves what products are suitable for use. Accordingly, no liability will be accepted by IBC Limited t/a SURFASOLOGY™.

For further information contact the SURFASOLOGY™ Technical Department.

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Smart Surface Solutions

Waterproofing and Damp Proofing Specialists



WHO WE ARE

SURFASOLOGY, formerly IBC Ltd., is Ireland's leading waterproofing and damp proofing specialist that has been proudly providing market leading, innovative, and sustainable construction solutions since 1976.

Our high-quality products and systems are accompanied by our professional technical support and a full installation service. **SURFASOLOGY** technical consultancy team have unrivalled experience in major construction projects, as well as solving everyday problems for homeowners, with long term trustworthy solutions.

Our products are all manufactured in ISO Quality System compliant facilities and meet the relevant local, National, & European standards. **SURFASOLOGY** network members manufacture products exclusively in Germany, Switzerland, Spain, Greece and the UK. We support these products in local markets with highly-qualified technical professionals, who understand both on-site demands and the design detail. We work in a collaborative way with our clients at all stages of the project to ensure that the correct design, preparation, and application are carried out to ensure a timely and successful outcome for all stakeholders.

Get in touch with us today!

**INNOVATIVE, WORLD-CLASS,
SUSTAINABLE CONSTRUCTION
SOLUTIONS, POWERED BY OUR
EXTENSIVE EXPERIENCE AND
EXPERTISE.**

AREAS OF EXPERTISE

Structural Waterproofing

Our world class solutions encompass the whole building envelope both above and below ground.

Damp Proofing & Remedial

A comprehensive range of first class damp proofing and timber treatment solutions.

Specialist Screeds & Coatings

High quality floor finish on domestic, commercial, under-floor heating or industrial projects.

Concrete Repair

We offer a highly efficient selection of products for the repair and protection of concrete elements.

WHAT WE DO

Material Supply

Reliable and sustainable surface solutions accompanied by unrivalled technical support.

Installation Service

Specialised installation service provided by our approved contractors delivering high quality workmanship you can trust.

Technical Support

Extensive experience and expertise in Project Design and Technical Support Services ensuring reliable outcomes for all our clients.

CPD Seminars

RIAI and RIBA approved CPD Seminars to specifiers on a variety of topics covering structural waterproofing and damp proofing.

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