

# The DualProof System

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## What is The DualProof System:

**DualProof** is a composite waterproofing membrane which forms a permanent bond with concrete preventing the tracking of water between the waterproofing membrane and the concrete sub-structure.

**DualProof** consists of a special non-woven PP-Fleece, which is co-extruded with a flexible PVC Sheet. The system is specifically designed for the waterproofing and protection of below ground reinforced concrete structures.

### **Specification Tip for Design Professionals:**

**DualProof** may be specified by name or by using the following description: a propriety 1.7mm PVC composite sheet, pre-applied or post-applied waterproofing membrane, designed for the waterproofing and protection of below ground reinforced concrete structures.



- ✓ Permanent bond, prevents tracking of water between the membrane and the concrete
- ✓ Provides all Grades of Protection according to BS 8102: 2009
- ✓ May be installed in all weather conditions
- ✓ Fast and easy to install
- ✓ No requirements for complicated welding equipment
- ✓ Lightweight and versatile- Easy on-site handling
- ✓ Protects concrete against salt and sulphate attack
- ✓ Unaffected by ground settlement.
- ✓ May be used in salt water conditions
- ✓ Resistant to Ground Gases (including Radon)
- ✓ Several independent test report
- ✓ Designed and manufactured in Germany

## How does DualProof work:

When the fresh concrete is placed it achieves a complete mechanical bond with the unique PP-Fleece and prevents any water movement between the concrete and the membrane.

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## Product Information Sheet

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## How do I prepare the surface prior to application of The DualProof System:

All surfaces onto which the **DualProof** membrane is to be applied should be sound, solid and free from 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** 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**.

### Pre-Application

**DualProof (T)** 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 50mm and the ends of the rolls staggered by a minimum of 300mm. All overlaps should be sealed using either **DualProof CEM 805 Adhesive**, or by using suitable **Leister** welding equipment.

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 CEM 805 Adhesive**.

The installed membrane may be cleaned using a soft -brush 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.

### Post-Application

**DualProof (S)** may be post applied, it's unique PP-Fleece, which is impregnated with a special water reactive polymer, provides a mechanical bond to the concrete which prevents any water movement between the concrete and the membrane. Additionally the water reactive polymer, which has self-healing properties, swells on contact with water thus preventing any ingress and providing a tertiary defence system.

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## How do I apply DualProof S:

Using a roller or a fibre bristle-brush apply a layer of **DualProof Cementitious Adhesive** onto the clean, damp wall at the rate of 1kg/m<sup>2</sup>.

The **DualProof S** membrane should be placed with the PP-Fleece facing the **DualProof Cementitious Adhesive**. Secure the **DualProof S** membrane at the top of the wall or at the selected termination point, using a timber batten fixed with steel nails. Working from the top of the wall down, use a wooden roller to press the membrane into the **wet** adhesive.

Subsequent strips of membrane should be placed using the same method allowing a minimum overlap of 50mm at the edges. The overlaps must be sealed using **DualProof Polymer Adhesive**, or by using suitable **Leister** welding equipment.

When the adhesive has set, remove the timber battens from the top wall, place a small strip/ patch of membrane over the nail-holes and bond with **DualProof Polymer Adhesive**, or by using suitable **Leister** welding equipment.

## Backfilling:

There is no requirement for protection board with the **The DualProof System** provided care is taken when backfilling.

Backfill should be clean filling that is 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.

## Packaging:

**DualProof** is packed in 30m<sup>2</sup> (1.2 x 25m) rolls with 12 rolls per pallet.

## Storage:

**DualProof** should be stored in its original manufacturers packaging in dry conditions above 5°C.

## Test Results:

- CE Marking DIN EN 13969
- German DIN 18195 Standard
- German DIN V 20000-202 approved
- DIN V 20000-202 approved
- General German Test Report PG-ÜBB / abP
- CPR Certificate (the Construction Products Regulation) - EN 13967:2004 + A1:2006

## About SURFASOLOGY™- The Science of Surfaces

**SURFASOLOGY™** is here to make products that work for you and the environment.

At **SURFASOLOGY™** we believe that time is our greatest treasure so we try to ensure that you do not waste it. Our products are so good that you have to use them once leaving you free to enjoy life to the most.

*Our mission is to make the world a better place, one surface at a time!*

## 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 himself what products are suitable for use. Accordingly, no liability will be accepted by **SURFASOLOGY™** (IBC Limited).

For further information, contact the **SURFASOLOGY** Technical Department.

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