

## **MECHANICALLY BONDED MEMBRANE**

*Designed for the waterproofing and protection of below ground reinforced concrete structures*

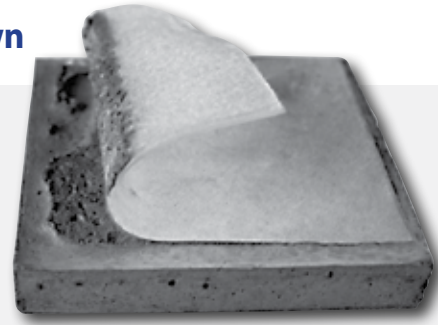


**The Clear Choice**

**DualProof**, the fresh concrete bonding membrane, is fast becoming the membrane of choice across Central Europe for waterproofing below ground concrete structures.

**DualProof is a high quality below ground waterproofing solution that offers you peace of mind, saves time and keeps your costs down**

**DualProof** is a water and gas resistant PVC membrane with a unique Polypropylene Fibertex Fleece. The PVC outer layer is water and gas resistant while the PP Fibertex Fleece enables DualProof's mechanical bond with the concrete; thus, giving a unique waterproofing seal and preventing any lateral water migration behind the membrane structures to achieve basement Grades 1, 2 and 3 as per BS 8102:2009.



## The DualProof System Consists of Two Distinct Products



### DualProof T

**DualProof T** is a pre-applied membrane for both horizontal and vertical applications.



### DualProof S

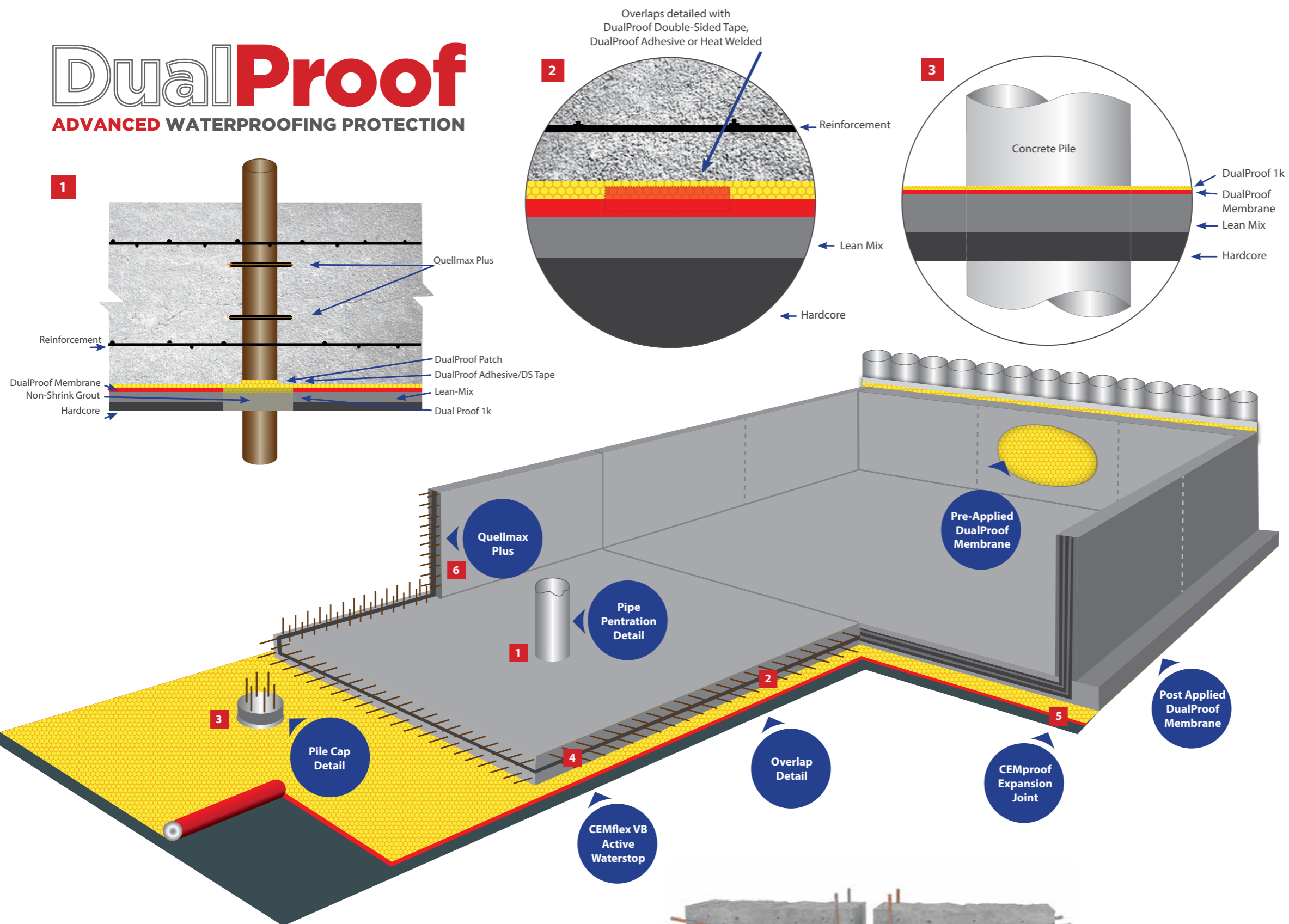
**DualProof S** is a revolutionary material concept which has a special polymer mix, including super absorber, impregnated in the PP Fibertex fleece which provides another level of waterproofing protection through its self-healing properties and is specially designed for post application on vertical surfaces.

## Key Features and Benefits of the DualProof System

- **Creates permanent mechanical bond preventing tracking of water between the membrane and the concrete**  
The smart PP FibreTex Fleece creates permanent mechanical bond with the fresh concrete preventing water tracking between the membrane and the concrete. Independent test reports show no lateral water migration at 50m hydrostatic pressure (5 bar water pressure).
- **Facilitates enhanced surface finish on the concrete**  
The PP FibreTex Fleece absorbs the excess liquids of the fresh concrete resulting in a better surface finish. Transparent backing on the membrane allows visual inspection of the cured concrete.
- **May be pre-applied or post-applied**  
DualProof T is placed against a suitable substrate or installed inside the removable formwork. DualProof S is mechanically fixed to the poured walls.
- **Provides all Grades of protection according to BS 8102:2009.**  
The DualProof System provides Type A barrier protection for below ground reinforced concrete structures to achieve basement Grades 1, 2 and 3.
- **Superior Strength Membrane**  
DualProof is less likely to be damaged during installation. No requirement for screed protection saving you time and money.
- **Resistant to Ground Gases**  
Tested and approved for use against ground gases (including radon) in accordance with BS8485:2015.

# DualProof

ADVANCED WATERPROOFING PROTECTION



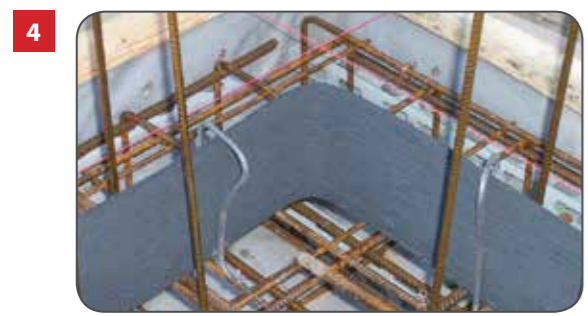
## Benefits to Installation Contractors

DualProof is an easy to install, robust, light-weight membrane, with a complete range of accessories available to assist with the correct installation and detailing of the complete system.

SURFASOLOGY also provide on-site training assistance prior to project commencement and continuous site support. Site specific installation method and detailing for critical points are provided.

## Benefits to Designers

SURFASOLOGY recognise designers' requirement for structurally integral, cost-effective and durable systems. Therefore, we offer innovative high-quality solutions for below ground structures. Not only do we provide designers with high performance structural waterproofing systems, we also offer our continuous professional technical advice and assistance. Site specific installation method and detailing for critical points are provided.



**CEMflex VB Active Waterstop**  
A galvanised steel plate encapsulated in a special patented coating which reacts with water to provide a watertight joint, for use in all non-movement construction joints in reinforced concrete.



**CEMproof PVC Waterbar**  
A range of internally and externally placed PVC Waterstops used for the protection of both movement and non-movement joints in reinforced concrete structures.



**Quellmax Plus**  
Bentonite waterstop tape with a patented rain protection layer, which delays swelling effect of the waterstop for c. 72 hours.



## On-Site Benefits include:

- Fast and easy to install
- May be installed in all weather conditions
- Lightweight and versatile: easy on-site handling
- Protects concrete against salt and sulphate attack and is suitable for use in salt or brackish water areas
- Becomes monolithic with the concrete, unaffected by ground settlement.

## Window of Opportunity

When the external shuttering is removed, the transparent PVC membrane now becomes a “window” to any potential defects in the concrete. DualProof’s transparent PVC membranes allows the contractor and surveyor to assess the concrete quality and address potential issues such as voids, etc.



**DualProof** System provides a fully bonded Type A barrier protection for below ground reinforced concrete structures to achieve basement Grades 1, 2 and 3 as per BS 8102:2009



EN 13967



BS 8102:2009  
Type A Barrier Protection



British Agrément Approval



DIN V 200000-202  
DIN 18195 T6



SIA 272, Switzerland  
Waterproofing  
in Ground Water



Radon Gas Test



Gas Transmission Test  
(EN 15105-1)

## In-House Design Support Service We Come to You!

Having over forty years of experience in the Construction Industry, allows us to understand the challenges that design professionals encounter on a daily basis.

Our In-House Design Support Service is aimed at assisting you with your current or planned projects, by offering our support in your office, and answering the questions that you may have relating to your structural waterproofing needs.

This service is delivered by a Certificated Surveyor in Structural Waterproofing (CSSW) accredited by the Property Care Association (PCA) and is provided free of charge.

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# What is SURFASOLOGY™?

The SURFASOLOGY™ network comprises of a number of innovative niche market European manufacturers of construction products and chemicals who focus on improving construction techniques and performance by developing products that are easy to use and meet the performance criteria required to satisfy the most stringent construction standards.

The primary focus of SURFASOLOGY™ is on high efficacy structural waterproofing solutions designed to enable efficient installation and minimise the possibility of water ingress into structures.

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, 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.



## Our comprehensive structural waterproofing range includes:

### Waterproofing Membranes:

- Bentonite Clay Liners
- Bonded Sheet Membranes

### Liquid and Powder Watertight Concrete Admixtures

### Joint Sealing Solutions:

- Steel Plate Waterstop
- Bentonite Waterstops
- Injection Hose Technology
- TPE Hydrophillic Rubber
- PVC Waterbars

### Liquid Applied Membranes (LAMs)

### Cavity Drainage Membranes

SURFASOLOGY



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