

# MATAPROOF

## DualProof CS

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### Product Description

DualProof CS is proprietary, highly-flexible composite waterproofing membrane system with a special non-woven PP-Fleece, which is co-extruded with a highly flexible, water and gas resistant, soft 1.7mm PVC membrane. In this variant of DualProof, the PP-fleece is impregnated with a special water absorbing polymer to provide a second line of defense against water and moisture intrusion when applied post-concrete pour. The DualProof CS Membrane System is new generation technology, it is specifically designed for the waterproofing and protection of below ground reinforced concrete.

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### Applications

DualProof CS may be used in all applications, where reinforced concrete structures must be protected against groundwater and contaminants. It is suitable for waterproofing of foundations, basements, tunnels, garages and all other concrete constructions below grade. DualProof CS can be used in saline or alkaline environments due to its chemical resistance.

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### Features and Benefits

- Used for water pressure-tight surface sealing of (WU) concrete structures
- May be used in salt-water areas to protect the concrete structure
- May be used as a supplementary method for high-quality use (A + to A +++ ) in WU constructions
- Barrier against radon or radon gas
- Tough and resistant - fast and easy to install
- High compound shear strength
- Crack bridging in case of concrete cracks caused by strength and shrinkage
- Tested up to 6.9 bar
- May be installed in all weather conditions / Working temperature between -5°C and +50°C
- No requirements for complicated welding equipment
- Lightweight and versatile; easy on-site handling
- Membrane edge for overlapping
- Protects concrete against moisture, ground water, chemical, salt and sulphate attack

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### Physical Properties\*

Property	Value
Material	Soft PVC membrane + PP swelling, nonwoven fleece
Straightness	75 mm / 10 m
Thickness	1.7 mm
Durability Against Artificial Aging	12 weeks / 70°C: 60 kPa
Durability Against Chemicals	28 d / +23 °C: 60 kPa / 24h
Compatibility with Bitumen	60 kPa / 24h

*\* The values shown are based on system testing under laboratory conditions. Different field application conditions or lab equipment configurations may result in system value variances.*

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### Packaging

DualProof CS Membrane rolls are individually wrapped in foil.

1.08 M width: 20 M per roll: 9 rolls per pallet - Overlappings: PVC-EDGE 50 mm

2.16 M width: 25 M per roll: 7 rolls per pallet - Overlappings: PVC-EDGE 100 mm

## **Installation**

DualProof CS 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 CEM 805 Adhesive, or by using suitable heat-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 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.

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## **Limitations/ Shelf Life**

DualProof CS Membrane should be stored in its original manufacturers. They should be kept dry and protected from direct sunlight, snow, ice, water, heat or heat sources. The storage temperature should be between + 5 ° C and + 30 ° C.

Do not stack any sharp items or additional pallets on top the DualProof CS Membrane during transport and storage.

Shelf life 3 years when stored in dry conditions, protected from direct sunlight, frost and water.

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## **Warranty**

FPT Infrastructure warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, FPT Infrastructure makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to FPT Infrastructure Products. FPT Infrastructure's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of FPT Infrastructure Products proven to be defective, and FPT Infrastructure shall not be liable for any loss or damage.

Please refer to our website at [fptinfrastructure.com](http://fptinfrastructure.com) for the most up-to-date Product Data Sheets.

NOTE: All FPT Infrastructure Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.