

# CEMproof® DualProof

DualProof – Durable and watertight solution for below grade concrete structures.

## DualProof

DualProof is a fully and permanently bonded, self-adhesive, composite sheet membrane waterproofing system. It consists of a highly flexible PVC membrane laminated with a non-woven PP-fleece. DualProof is cold-applied and pre-applied, as it is installed without heat or open-flames, and before the steel reinforcement is fixed and the concrete is poured.

## Field of Application

### General Applications of DualProof

#### Damp-proofing against:

- Rising humidity through capillary action
- Percolating water, for slab-on-ground foundations, column footings, strip foundations, and walls
- diffusion, effusion, sorption

#### Concrete protection against:

- Various gases of the ground
- Different types of chemicals in solution (sulphate, chloride, carbonate, hydrogen carbonate, etc.)
- Contaminated ground water

#### Waterproofing Resistant to:

- Water under hydrostatic pressure
- Lateral water migration for deep, one or multi-level below grade structures.
- According to the German DIN 18195 "pressurized water"
- Additional sealing membrane to all watertight concrete structures

DualProof is an innovative system "Made in Germany" that prevents any lateral water and migration between the waterproofing membrane and the structural concrete.

The secret of the high durable watertight solution called CEMproof DualProof is the combination of a special designed non-woven (**The new PP FiberTex technology**) and a highly flexible PVC-membrane.

The manufacturing process is the secret which creates "absolutely watertight bonding with the fresh concrete". This self-adhesive bonding blocks any lateral water migration, even in the event of any local damage to the membrane. The DualProof membrane itself is also connected together with the special designed fleece, that any water circulation in the fleece itself is absolutely impossible.

This fleece is also embedded completely into the fresh concrete and creates a full and durable mechanical

bond between the PVC membrane layer of DualProof and the cured concrete.

**CEMproof DualProof can be used in saltwater areas in order to protect the concrete structure!**



## Areas of Use

CEMproof DualProof is used in all applications, where structures have to be protected against groundwater and seepage.

For the waterproofing of foundations, basements, tunnels, garages and all other concrete constructions below grade. CEMproof DualProof is an economically and environmentally friendly alternative to bituminous products and coatings.

## Advantages of DualProof

- Tough and resistant, quick and easy to install, high compound shear strength
- Can be installed in every season, independently of temperature and weather condition
- No use of complicated welding equipment and specially trained staff, overlapping can be easily secured with CEM 805 adhesive
- Quality control (CE-Certification)
- Self-adhesive bonding properties of the system
- Seals small cracks in the concrete
- Suitable roll dimensions (1,20 x 25 m = 30m<sup>2</sup>)
- Can be used in saltwater condition
- Several tests have been made at the University of Braunschweig/Germany
- Easy handling of CEMproof DualProof

## Technical Data Sheet

### Please see the Declaration of Performance

DualProof - Technology made in Germany!  
DualProof - A BPA Technology!



### Storage

CEMproof DualProof has to be stored dry and frost-free. DualProof has to be protected during storage against UV. Shelf life is 5 years.



### Form of Delivery

Dimension: 1,20 x 25 m „Standard“  
 30 m<sup>2</sup>/Roll, 44kg/Roll, 12 Rolls/Pal  
 Weight per sqm: 1.470 g/m<sup>2</sup>  
 Total-Thickness: 1,7 mm  
 PVC 1,2 mm, 200g/m<sup>2</sup> Special PP-non-woven  
 The **new PP FiberTex Technology** gives the DualProof its unique bond and connection to the concrete.



### Pictures / Application

DualProof is a public-tested double-sealing membrane.

