DualProof light
pre-applied waterproofing membrane
### DualProof light

**DualProof light** is a fully and permanently bonded, self-adhesive, composite sheet membrane waterproofing system. It consists of a highly flexible TPO/FPO membrane laminated with a non-woven PP-fleece. DualProof light 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 light**

**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 General Code Test Certification tested up to 5 bar "pressurized water"
- Additional sealing membrane to all below ground concrete structures

DualProof light 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 DualProof light is the combination of a special designed non-woven (The new PP FiberTex technology) and a highly flexible TPO/FPO-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 light 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 TPO/FPO membrane layer of DualProof light and the cured concrete.

**Areas of Use**

DualProof light 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. DualProof light is an economically and environmentally friendly alternative to bituminous products and coatings.

**Advantages of DualProof light**

- 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 self-adhesive tapes (Seal Tape)
- Quality control system ISO 9001/2008 and CE-Certification
- Unique mechanical bonding properties of the system
- Seals small cracks in the concrete
- Suitable roll dimensions (1,00 x 20 m = 20m²)
- Can be used in saltwater condition
- Several tests have been made at the University of Braunschweig/Germany
- Easy handling of DualProof light, 300m²/Pal

**Technical Data Sheet**

- DualProof light - TPO/FPO grey + PP-FiberTex black
- DualProof light - with self-adhesive overlapping lap
- DualProof light - without self-adhesive overlapping lap
- DualProof Seal Tape
Storage
CEMproof DualProof light has to be stored dry and frost-free. DualProof light has to be protected during storage against UV. Shelf life is 5 years.

General building authority test certificate
- Translation -
Test certificate number: P-1201/385/16-BS

Subject and scope of application:
Application provisions for a plastic waterproofing sheet in accordance with DIN EN 13967 for construction waterproofing pursuant to Construction Products List A Part 3, sequential no. 1.2, which deviates from the requirements of DIN V 20000-202, section 5.3.

Here: „DUAL PROOF light“
waterproofing sheet for construction waterproofing

Form of Delivery
Dimension: 1,00 x 20 m „Standard“
20 m²/Roll, 19kg/Roll, 15 Rolls/Pal (300 m²)
Weight per sqm: 0.950 g/m²
Total-Thickness: 1.6 mm
TPO/FPO 0.8 mm, 150g/m² Special PP-non-woven

The new PP FiberTex Technology gives the DualProof light its unique bond and connection to the concrete.

Pictures / Application
CE-marked according DIN EN 13967 - tested up to 5 bar waterpressure
Type of waterproofing:

**Type A (Barrier) protection** - A barrier to water ingress is applied to the inner or outer surface of the structure. (Membranes / coatings)
*DualProof light* membrane – unique mechanical bond to the fresh concrete

**Type B (Structurally Integral) protection** - The structure is formed as a watertight construction using admixtures and water-bars.
*CEMflex VB* waterstop – unique mechanical bond to the concrete and active crystallisation sealing

**Type C (Drained) protection** - Water entering the structure is received by planned cavities or voids and safely removed using sump and pumps.
*CEMdrain* drainage board – highly pressure resistant drainage board

Grades of waterproofing protection:

**Grade 1** - Some water seepage and damp is tolerable depending on the intended use. Car parking, plant rooms (No electrical equipment) etc. local drainage may be provided.
*Capillary moistened* - watertight concrete structures!

**Grade 2** - No water penetration is acceptable. Damp areas are tolerable depending on the end use. Plant rooms, workshops etc.
*Mainly dry* - watertight concrete structure including accessories to seal joints, formwork ties, penetrations, additional reinforcement, crack reduction reinforcement, concrete admixture, advanced concrete technology, etc.! Fully designed and detailed concrete structure by a waterproofing specialist / engineer!

**Grade 3** - No dampness or water penetration is acceptable - Ventilated residential and commercial areas such as homes, offices, shops etc.
*Completely dry* - watertight concrete structure and additional sealing membrane!
*DualProof light* is especially designed and developed to seal concrete structures against pressurized water. The inner surface of the finishes and services work must be sufficiently impervious so that no area of moister can be detected on the inner surface.
Dual Proof light – concrete sealing membrane
www.dichte-bauwerke.de