

**POSTBOND - BONDED, SELF-ADHESIVE, COMPOSITE SHEET MEMBRANE WATERPROOFING**
**Description**

MacLennan Postbond is a fully and permanently bonded, self-adhesive, composite sheet membrane waterproofing system for reinforced concrete structures. It consists of an embossed polyolefin (FPO) based membrane coated with a sealant adhesive. MacLennan Postbond is cold- and post-applied, as it is installed without heat or open-flames and after the concrete is cured or on existing concrete structures.

**Uses**

Damp-proofing, waterproofing and concrete protection for basements and other below ground concrete structures against ground water ingress. Post-applied on existing below ground reinforced concrete structures, such as:

- On horizontal slabs or protrusions
- On exterior walls
- For extensions and reconstruction works
- On prefabricated structures

**Key Benefits**

- Cold- applied and self-adhesive (no heat or open flames required)
- Fully and permanently bonded to the reinforced concrete structure
- No lateral water underflow or migration between the concrete structure and the membrane system
- High watertightness tested according to many standards
- Easy to install with fully adhered joints (no welding required)
- Temporarily resistant to weathering and UV-light during construction
- Resistant to aging
- High flexibility and crack-bridging abilities
- Resistant to aggressive mediums in natural ground water and soil

**Product Data**
**Appearance / Colour**

Light yellow sheet membrane, on the back side a white protection/release carrier film

**Packaging**

MacLennan Postbond rolls are wrapped individually in a yellow PE-foil. W1m x L20m

**Shelf Life**

MacLennan Postbond membrane rolls have a shelf-life of 12 months from date of production if stored properly in unopened, undamaged, original packaging, in a horizontal position, in dry conditions and at temperatures between +5°C and +30°C. They must be protected from direct sunlight, rain, snow and ice, etc. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage.

**Technical Data**
**Chemical Base:**

Membrane Layer: Flexible Polyolefin (FPO)  
Sealant/adhesive: Polyolefin (PO)

**Product Declaration:**

EN 13967, mandatory for European countries

**Visible Defects:**

Pass / EN 1850-2

**Straightness:**

< 50mm / 10m / EN 1848-2

**Mass per unit area:**

1.20 kg/m<sup>2</sup> (-5/+10%) EN 1849-2

**Thickness**

Total Thickness(=deff): 1.20 mm  
Master Membrane Thickness: 0.60mm  
Deviation: (-5/+10%)  
EN 1849-2

**Watertightness To Liquid Water**

Pass  
EN 1296 (12 Weeks)  
EN 1928 B (24h / 60Kpa)

**Resistance to Impact:**

>200mm / EN 12691

**Durability of Watertightness against Ageing:**

Pass  
EN 1296 ( 12 weeks)  
EN 1928 B (24h / 60 kPa)

**Durability of Watertightness against Chemicals:**

Pass  
EN 1847 (26 d/+23 °C)  
EN 1928 B (24h / 60 kPa)

**Accelerated Ageing in an Alkaline Environment Tensile Strength:**

Pass  
EN 1847 (28 d/+23 °C)  
EN 1928 B (24 h / 60 kPa)

**POSTBOND - BONDED, SELF-ADHESIVE, COMPOSITE SHEET MEMBRANE WATERPROOFING**

**Technical Data**

**Resistance to Tear - Nail Shank:**  
 ≥ 200 N / EN 12310-1

**Tensile Strength (Machine Direction):**  
 ≥ 6.0 N / mm<sup>2</sup>  
 EN 12311-2

**Tensile Strength (Cross Direction):**  
 ≥ 6.0 N / mm<sup>2</sup>  
 EN 12311-2

**Elongation (Machine Direction):**  
 ≥ 350 %  
 EN 12311-2

**Elongation (Cross Direction):**  
 ≥ 350 %  
 EN 12311-2

**Shear Resistance to Joints:**  
 ≥ 125 N / 50 mm  
 EN 12317-2

**Water Vapour Transmission:**  
 0.63 g/m<sup>2</sup> x 24 h EN 1931  
 m = 57'500 (- /+20%)  
 Sd = 63 m (+23°C / 75% r.h.)

**Resistance to Static Load:**  
 ≥ 20 kg  
 EN 12730 (Method B, 24 h/20 kg)

**Reaction to Fire:**  
 Class E  
 EN 13501-1:2000

**Reaction against oxidation:**  
 Passed  
 EN 14575

**Waterproofing After Artificial Ageing:**  
 Passed  
 EN 1296

**Additional Data (Not CE Relevant)**

**Water resistance to lateral water underflow of membrane system:**  
 Pass up to 7.0 bar  
 ASTM D 5385 mod.

**Peel Resistance of Joints:**  
 ≥ 50 N / 50 mm  
 EN 12316-1

**Peel Resistance to Concrete:**  
 ≥ 100 N / 50 mm, (with according Primer)

**Application**

**Ambient Air Temperature:**  
 +5°C to + 40°C

**Service Temperature:**  
 -15°C to +35°C

**Substrate Temperature:**  
 Minimum +5°C

**Substrate Moisture:**  
 Dry, ≤ 4% moisture content, no rising moisture

**Dew Point:**  
 The substrate temperature must be at least 3°C above the dew point to reduce the risk of condensation and so limited adhesion.

**Substrate Quality:**

The reinforced concrete structure must be hardened, sound and of sufficient compressive strength minimum 25 N/mm<sup>2</sup> and a minimum pull off strength of 1.5 N/mm<sup>2</sup>. The concrete substrate have to be dry, even, sound, clean and free of any impurities. Unevenness and surface defects (such as blowholes, voids, honeycombing, cracks, protrusions, etc.) in the surface have to be treated prior to the application to prevent any damages of the sheets