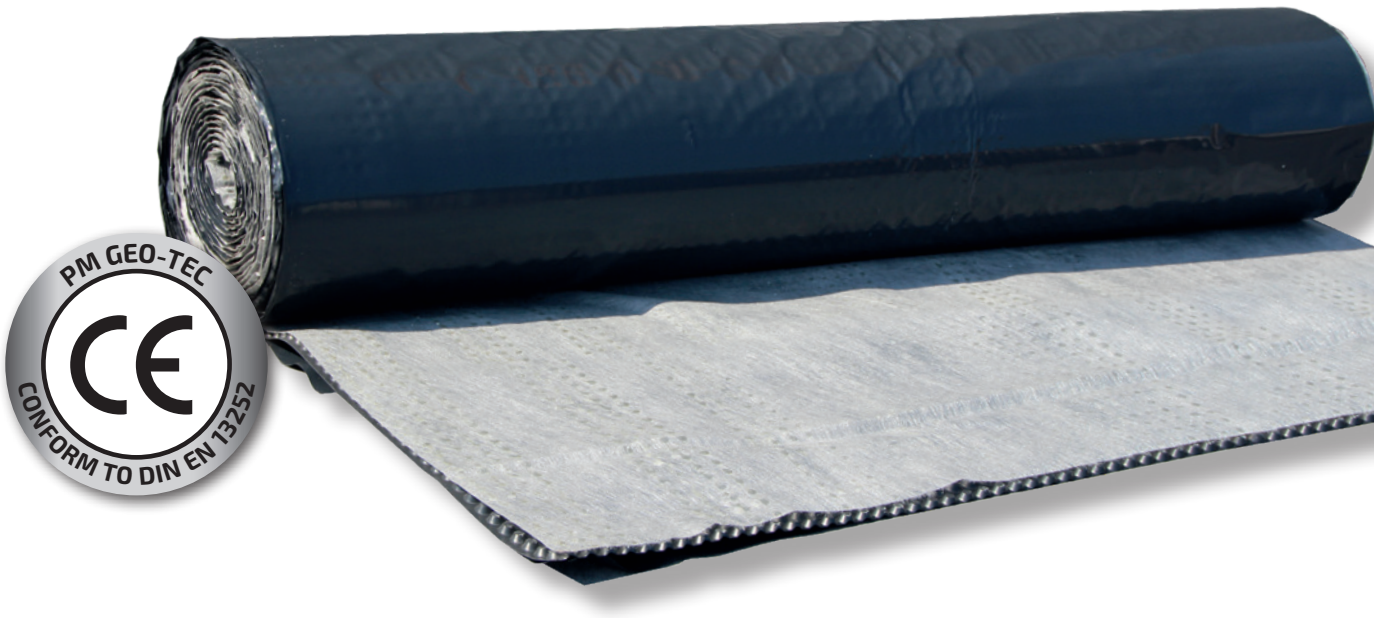
Technical Data Sheet

BREAKTHROUGH FLEXIBILITY

PM GEO-TEC 250



The triple-layer PM GEO-TEC 250 protection and drainage system is a high-quality supplement to polymer modified bituminous thick coatings (PMBC) for outer basement walls. Thick coatings act as a permanent sealing, filling in cracks and joints, but for backfilling or subsequent soil settling, they can be extremely sensitive to impacts and pressure. The result: elaborate time-intensive and thus cost-intensive safeguarding work for the backfilling process and the risk of later complaints. The PM GEO-TEC 250 solution gives you a complete multi-layer protection and drainage system for earth-contacting structures fitted with bituminous thick coatings or other sealants. PM GEO-TEC 250 consists of a dimpled membrane, a sturdy geotextile and a rear-side sliding film. The sliding film distributes the effective earth pressure and acts as a sliding surface in case of any settling of the filling soil. The protective effect meets the requirements of DIN 18533. Moreover, the excellent water draining capacity of PM GEO-TEC 250 is multiple times higher than required by drainage standard DIN 4095.
PM GEO-TEC 250 has a compressive strength of 250 kN/m².
The drainage membrane is available in many different length and width variations.

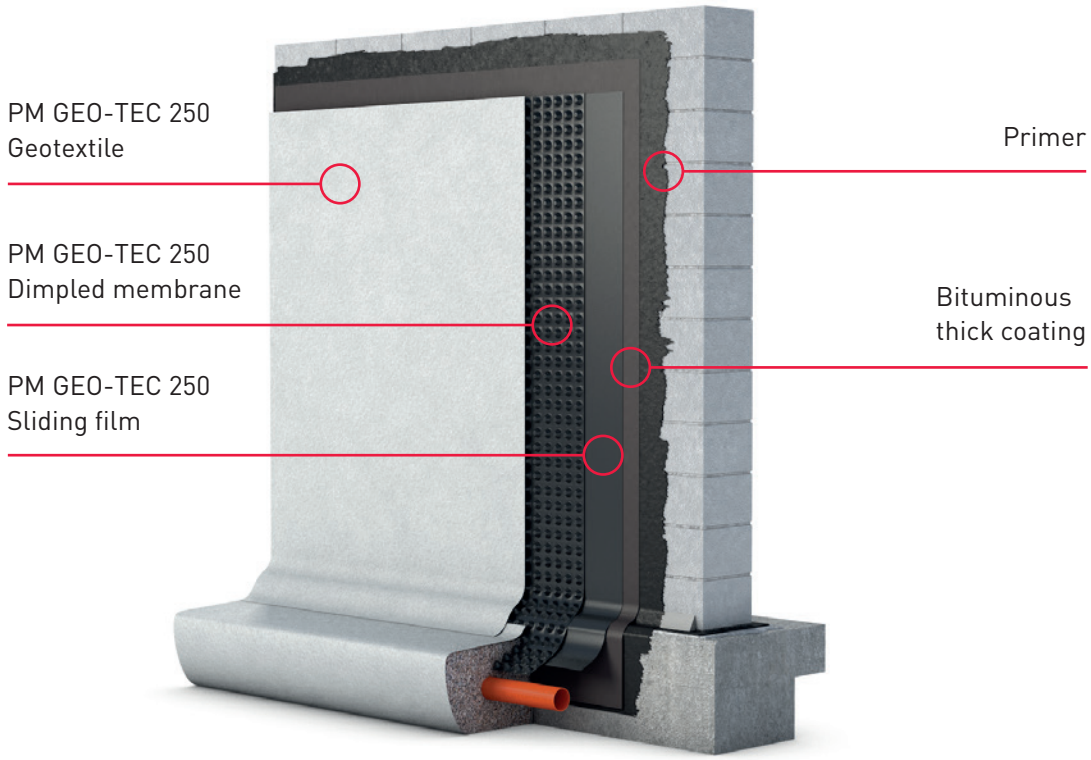
Technical Data

Dimpled membrane	HDPE
Sliding film	LDPE approx. 200 µm
Geotextile	polypropylene
Total weight	approx. 730 g/m²
Dimple height	8 mm
Compressive strength	approx. 250 kN/m² = 25 t/m²
Water flow capacity in the plane, rigid – soft; i = 1.0 rigid – soft, i = 0.01 rigid – soft, i = 0.02 rigid – soft, i = 0.03	 approx. 2.62 l/s·m at 20 kPa approx. 0.17 l/s·m at 20 kPa approx. 0.27 l/s·m at 20 kPa approx. 0.35 l/s·m at 20 kPa
Roll length	12.5 / 15 / 20 m
Roll width	0.5 / 0.75 / 1.0 / 1.5 / 2.0 / 2.5 m
Air volume between the dimples	approx. 5.5 l/m²
Temperature resistance	–30 °C to +80 °C
Chem. properties	chemical-resistant
Biolog. properties	resistant to bacteria and fungi, rot-resistant, root-proof
Physiolog. properties	safe for drinking water
Characteristic opening width	approx. 170 µm
Water permeability EN ISO 11058	approx. 100 · 10^{-3} m/s
Fire behaviour	class E

For more information, visit **www.pmi-plast.de**

PM GEO-TEC 250

INSTALLATION INSTRUCTIONS



Vertical installation

The width of the PM GEO-TEC 250 dimpled membrane must be adjusted to the sealing height: Up to a height of 1.90 m, the 2 m wide membrane is unrolled on the wall, up to a height of 2.40 m the 2.50 m wide membrane; for all other heights, both membrane widths can be used. The membranes are cut diagonally to the roll to the correct length and laid lengthwise from top to bottom: The geotextile always faces outwards – towards the ground. It is important to ensure that the sides of the individual membranes overlap while lifting the geotextile accordingly. At corners, it is recommended to fold the membrane along the edge line prior to installation.

The upper edges of the membranes must be about 15 cm above the sealing at all times. The membrane is first attached temporarily (e.g. with wooden battens) because the drainage membrane is held by earth pressure after backfilling. The final membrane is finally overlapped with the starting membrane over a width of at least 30 cm. The lower end rests on the circumferential drainage. The circumferential drainage is enclosed all-round by at least 15 cm of filter-stable gravel. After backfilling, simply cut off the membrane at the top edge of the soil. The PM EDGE FINISHING PROFILE can be used to cover the upper edge of the membrane.

Accessories:
PM MOUNTING BUTTON with specially hardened steel nails | PM EDGE FINISHING PROFILE made of plastic or metal in black or brown | PM BUTYL ADHESIVE TAPE | PM POWER FIX cartridge adhesive

PMI-Plast GmbH | Gewerbegebiet Hülsdonk-Nord | Bullermannshof 10 | 47441 Moers
Telephone: 0049 (0) 2841 880 69-0 | info@pmi-plast.de | www.pmi-plast.de