



MAXDRAIN[®] P8

DRAINAGE MEMBRANE FOR THE PROTECTION OF FOUNDATIONS, WALLS AND SLABS



DESCRIPTION

MAXDRAIN[®] - P8 is a high density polyethylene (HDPE) membrane formed in a shape of truncated cones with high compression resistance and high draining capacity which provides a drained cavity to floors and walls of underground structures. Its specially designed cones collect water and channel it away from the surface towards an appropriate drainage system.

APPLICATION FIELDS

- Protection and drainage of foundations and retaining walls.
- Protection of waterproof coating in foundations.
- Drainage and protection of galleries and tunnels.
- Ventilation of retaining and interior walls.
- Protective layer and casting of lean concrete of slabs and other horizontal concrete surfaces in floor slabs, preventing the rising dampness because of a direct contact with saturated grounds.

ADVANTAGES

- High drainage capacity.
- Easily installed system.
- Excellent chemical resistance: alkalis, acids, solvents and all common groundwater salts.
- High compression resistance.
- Relieves hydrostatic pressure on underground structures and extends the life of the waterproof coating.
- Resistant to roots.
- Does not rot.
- Appropriate for contact with drinking water.
- Compatible with cement-based materials and other common building materials.
- Provide some degree of thermal insulation.

APPLICATION INSTRUCTIONS

Preparation of the surface

Surface to be protected with the drainage membrane must be sound, relatively smooth and free of any material which affect to the installation of the membrane. Where surface irregularities exceed 5 mm, cut back and make good. Waterproofing of surface with

any suitable cement-based material such as **MAXSEAL® FOUNDATION** (Technical Bulletin N° 8) is highly recommended. For casting applications, remove any element or punching material which could damage **MAXDRAIN® -P8** during the pouring of the concrete.

Installation

Membrane is fixed mechanically to the substrate using an anchorage washer that fills the truncated cone and wherein the steel nail is introduced (use at least 2 fixing washers per m²). Avoid crushing the cones when membrane is fixed to the substrate.

For horizontal surfaces or floor slabs, loose lay **MAXDRAIN® -P8** with truncated cones to the floor, i.e. black side and cut around any obstructions. Seal around columns, penetrations and other elements with any suitable mastic tape. Form end and side laps by interlocking the cones at least 20 cm, and sealing with adhesive tape.

For walls, foundations and other vertical elements or applications, **MAXDRAIN® -P8** drainage membrane installation is carried out by unrolling in a continuous vertical strip (wall paper style) on the walls, and placing the truncated cones against the surface to be protected, i.e. black side faced to surface and brown side faced to ground, providing a chamber through wherein both air and water vapour will circulate. In order to avoid the entrance of the backfilling material into the chamber, the top sealing of the drainage membrane is carried out using a polyethylene profile. If horizontal laps are unavoidable ensure the upper sheet is overlapped by the lower sheet, to ensure the water is retained with the cavity.

In internal/external corners and other small areas, avoid the presence of dead volumes by blending the membrane on site to form corners in a suitable way.

For applications wherein a drainage tube placed along the foundations or retaining walls is required, install **MAXDRAIN® -P8** any put a layer of gravels or any other

draining material directly on the membrane and then, install the tube.

IMPORTANT INDICATIONS

- Damaged areas can be repair by cutting an over-sized patch of **MAXDRAIN® -P8** and fixing with adhesive tape.
- Back-fill should be placed as soon as possible after membrane installation.
- **MAXDRAIN® -P8** must be link with the site drainage system.
- For further information and other uses not specified in this Technical Bulletin consult our Technical Department.

PACKAGING

MAXDRAIN® -P8 is a brown drainage membrane and it is supplied on pallet with 12 rolls of 2,1 m x 20 m (42 m²/roll). Other accessories for the system can be also supplied:

- Bags of 20 fixing washers with concrete nails.
- Fixing nails: box of 400 units
- Polyethylene profiles for top seal: Battens 2,5 m.

STORAGE

MAXDRAIN® -P8 had an indefinitely shelf life when is stored in its original unopened pallets in a dry and covered place, with temperatures between 5 °C and 30 °C. Protect against direct sunlight, heat and frost.

SAFETY AND HEALTH

For further information, Safety Data Sheet of **MAXDRAIN® -P8** is available by request.

Disposal of the product and its empty packaging must be made by the final user and according to official regulations.

TECHNICAL DATA

Characteristics of the product	
Description	HDPE membrane form with truncated cones
Colour	Brown
Thickness (mm)	0,6
Weight (g/m ²)	500
Height of cones (mm)	8
Number of cones (unit/m ²)	1.660
Drainage capacity (l/s·m)	5,1
Compression strength (kN/m ²)	150
Stability thermal range (°C)	From -30 to +80

GUARANTEE

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