

Mapetex Sel

**Non-woven,
macro-holed
polypropylene fabric
for reinforcing
waterproofing
membranes**



WHERE TO USE

Reinforcement in macro-holed polypropylene fabric used together with **Mapelastic** and **Mapelastic Smart**, flexible cementitious membranes for waterproofing and protecting new concrete surfaces, or those repaired using products from the **Mapegrout** or **Planitop** ranges of products, and concrete units particularly subject to large deformations and, therefore, at risk of cracking.

Mapetex Sel may also be used together with **Mapegum WPS**, fastdrying liquid membrane for internal waterproofing applications.

Some application examples

- Large-scale containment basins.
- Retaining walls.
- Foundations.
- Hanging gardens.
- Flat roofs.
- Swimming pools.
- Bathrooms and shower booths cubicles/wet rooms.
- Terraces.

TECHNICAL CHARACTERISTICS

Mapetex Sel is a macro-holed non-woven fabric, whose structure has a series of 1 mm diameter holes, which makes it completely permeable to water, and enhances the bond between the first and second layer of the flexible, waterproof membrane in which it is embedded.

Mapetex Sel is made up of continuous, synthetic, polypropylene fibres joined together with a mechanical needle-punch procedure. It is particularly recommended for strengthening **Mapelastic**, **Mapelastic Smart** and **Mapegum WPS**.

Thanks to its special properties, the characteristics of **Mapelastic**, **Mapelastic Smart** and **Mapegum WPS**, such as toughness, punch-resistance, ultimate elongation and crack-bridging, are further improved.

ADVANTAGES

- Remains unaltered and is resistant to alkalis contained in cement.
- Resistant to atmospheric agents.
- Dimensionally stable.
- Light and easy to handle.
- Easy to cut.



Application of the first layer of Mapelastick, and successive laying of Mapetex Sel

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Type of fibre:	polypropylene
Appearance:	macro-holed non-woven fabric (1 mm diameter holes)
Weight (g/m ²):	80
Thickness (mm):	0.6
Tensile strength (KN/m):	5
Deformation at maximum strain (%):	90 (longitudinal direction) 60 (transverse direction)
Customs class:	3824 50 90
FINAL PERFORMANCE OF MAPETEX SEL USED TOGETHER WITH MAPELASTICK, MAPELASTICK SMART AND MAPEGUM WPS	
Fracture covering capacity: Crack Bridging (mm):	
- after 28 days at +23°C and 50% R.H.:	> 3
- after 7 days at +23°C and 50% R.H. + 21 days in water:	> 3

- May be adapted to the profile of all types of substrate.

APPLICATION PROCEDURE

Preparation of the substrate

A) Protection and waterproofing of concrete structures and units

The surface on which **Mapetex Sel** is to be applied must be sound and perfectly clean. Remove all cement laitance, flaky parts and traces of powder, grease, oil and release agents by sand-blasting or washing down with high-pressure waterjets.

If the structure to be waterproofed and protected with **Mapelastick**, **Mapelastick Smart** and **Mapegum WPS** are deteriorated, repair the surfaces with products from the **Mapegrout** or **Planitop** ranges after removing all damage.

B) Waterproofing of terraces, balconies, bathrooms and swimming pools

• CEMENTITIOUS SCREEDS:

- slump cracks or cracks caused by plastic or hygrometric shrinkage must be sealed beforehand with **Eporip**;
- if thicknesses of up to 2 cm have to be levelled (to create falls, fill out dips, etc.) use **Adesilex P4**.

• EXISTING FLOORS:

- existing floors and coverings in ceramic, gres, clinker or terracotta etc. must be well bonded to the substrate and free from substances which could compromise the bonding, such as grease, oil, wax, paint, etc.

• RENDERS:

- cementitious render must be sufficiently cured (7 days per cm of thickness in good weather conditions), well bonded to the substrate, resistant and free from all dust and paint;
- dampen absorbent surfaces to be treated beforehand with water.

Application procedure for Mapetex Sel

1. Preparation of **Mapelastick**, **Mapelastick Smart** or **Mapegum WPS** (refer to the technical data sheets).
2. Manual application or by spray of a 1-2 mm thick uniform layer of **Mapelastick** or **Mapelastick Smart**, or a 1 mm coat of **Mapegum WPS**.
3. While the product is still fresh, carefully lay the **Mapetex Sel** on the surface, and press it firmly using a flat-bladed trowel to make sure that it is perfectly wetted.
4. Application of a uniform 1-2 mm thick second layer of **Mapelastick** or **Mapelastick Smart**, or a 1 mm coat of **Mapegum WPS**, in order to completely cover the **Mapetex Sel**.

Adjacent sheets of **Mapetex Sel** must overlap by at least 5 cm at both the longitudinal and transverse junction points.

During waterproofing operations, special care must be taken in the areas close to expansion joints and when blending in between horizontal and vertical surfaces, where **Mapeband** alkali-resistant rubber tape with felt backing or **Mapeband TPE** thermoplastic polymer tape with synthetic elastomers, “cold-welded” with **Adesilex LP** double coat polychloroprene adhesive in solvent solution, must be used. After applying **Mapelastic** or **Mapelastic Smart**, wait at least 5 days for curing (in good weather) before laying ceramic material, or one day for **Mapegum WPS**.

PACKAGING

Mapetex Sel is available in 25 m-long rolls with a width of 1 m.

STORAGE

Store in a dry, covered area.

PRODUCT FOR PROFESSIONAL USE.

WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

**All relevant references
for the product are available
upon request and from
www.mapei.com**

**Mapetex
Sel**



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