



# Mapetex Sel™

## NonWoven Fabric for Reinforcing Waterproofing Membranes



FOR PROFESSIONAL USE ONLY



### DESCRIPTION

*Mapetex Sel* is a macro-holed polypropylene fabric reinforcement used together with *Mapelastix™* and *Mapelastix Smart* flexible cementitious membranes for waterproofing and protecting new concrete surfaces or concrete units particularly subject to large deformations and, therefore, at risk of cracking. *Mapetex Sel* is also suitable for use on surfaces at risk of cracking following repair with products from the *Mapecem®* and *Planitop®* product groups. *Mapetex Sel* can increase crack-bridging capability up to 1/8" (3 mm).

### FEATURES AND BENEFITS

- *Mapetex Sel* features a series of 1/24" (1 mm) holes that enhance the bond between layers of *Mapelastix* while remaining flexible and breathable.
- The unique fabric structure of *Mapetex Sel* significantly improves the performance of *Mapelastix* waterproofing and protective membranes with respect to toughness, durability, "punch resistance," crack-bridging and elongation.
- Unaffected by alkalis contained in cement
- Resistant to aggressive atmospheric agents
- Dimensionally stable, light, easy to handle and install

### INDUSTRY STANDARDS AND APPROVALS

<u>LEED Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials* .....	Up to 2 points
IEQ Credit 4.2, Low-Emitting Materials – Paints & Coatings .....	1 point

\* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

### WHERE TO USE

#### For Professional Use

- Large-scale containment basins, retaining walls, columns, spandrel beams and foundations
- Balconies or terraces
- Swimming pools
- Bathrooms, showers and steam rooms
- Use *Mapetex Sel* in place of MAPEI's *Fiberglass Mesh* to provide greater membrane tensile strength and crack-bridging/-isolation properties of > 1/8" (3 mm)

### LIMITATIONS

For limitations, refer to the Technical Data Sheets (TDSs) of *Mapelastix* and *Mapelastix Smart*.

Consult MAPEI Technical Services Department for installation recommendations regarding any substrates and conditions not listed.

### SUITABLE SUBSTRATES

- Concrete, ceramic, metal or wood substrates that have been properly prepared (cleaned and dry) and meet requirements outlined in the *Mapelastix* or *Mapelastix Smart* TDSs



## Product Performance Properties

Laboratory Tests	Results
Type of fiber	Polypropylene
Appearance	Non-woven, macro holes (1/24" [1 mm])
Weight	0.26 U.S. oz. per sq. ft. (80 g per m <sup>2</sup> )
Thickness	1/42" (0,6 mm)
Tensile strength	375 lbs. per ft. (5 KN per m)
Deformation at maximum strain	90% longitudinal, 60% transverse

## Final performance of *Mapetex Sel* when used with *Mapelastick* or *Mapelastick Smart* (crack-covering capacity):

Crack Bridging	
After 28 days at + 73°F (23°C) and 50% relative humidity	1/8" (3 mm)
After 7 days at + 73°F (23°C) and 50% relative humidity	1/8" (3 mm)
After 21 days submerged in water	1/8" (3 mm)
Shelf life	2 years. Store in cool dry place above 40°F (4°C).

## CSI Division Classification

Cementitious Waterproofing	07 16 00
----------------------------	----------

## Packaging

Product Code	Size
281625	Roll: 82 ft. x 3.3 ft. (25,0 m x 1,01 m)

## Product Coverage

Coverage	270 sq. ft. (25,1 m <sup>2</sup> ) per roll
----------	---

## SURFACE PREPARATION

- Surfaces must be free from oil, grease and paint, and must be free from dust and areas that are either uneven or loose.
- The surface on which *Mapetex Sel* will be applied must be sound and perfectly clean. Remove all cement laitance, scale, chalky residue, grease, oil and release agents by abrasive blasting or pressure-wash with an high-pressure washer (at > 3,500 psi [24,1 MPa]) with the nozzle within 6" (15 cm) of the substrate surface.
- If the structures to be waterproofed and protected with *Mapelastick* or *Mapelastick Smart* are deteriorated, first repair the surfaces with the suitable products from the *Planitop*®, *Mapecem*® or *Planigrout*® lines.

- Waterproofing of terraces, balconies, bathrooms and swimming pools  
**Cementitious screeds:** Slump cracks or cracks caused by shrinkage must be sealed beforehand with *Planibond*® CR 50 or *Planibond JF* or equivalent.  
**Existing floors:** Existing hard floor-covering materials (ceramic and stone, for example) must be well-bonded to the substrate and free from substances that could compromise the bonding, such as sealers, grease, oil, wax and paint.  
**New concrete:** Cementitious toppings and renders must be sufficiently cured (for 7 days per 1/2" [12 mm] of thickness in good weather conditions), well-bonded to the substrate, and free from all dust paint and laitance.
- Absorbent surfaces to be treated should be dampened beforehand with water.

## PRODUCT APPLICATION

Note: Choose all appropriate safety equipment before use.

- For preparation of *Mapelastick* or *Mapelastick Smart*, refer to the associated TDSs.
- Apply *Mapelastick* by spray or trowel, or *Mapelastick Smart* by spray, roller or brush to a uniform layer at 40 to 60 mils (1 to 1,5 mm) thick.
- While the product is still fresh, carefully lay the *Mapetex Sel* on the surface. Press it firmly into the *Mapelastick* or *Mapelastick Smart* using a flat-bladed trowel to make sure that it is thoroughly wetted out and lightly embedded.
- While the first layer of *Mapelastick* or *Mapelastick Smart* is still wet, immediately after the *Mapetex Sel* has been placed, apply *Mapelastick* or *Mapelastick Smart* again. Apply this second, uniform layer at 40 to 60 mils (1 to 1,5 mm) thick, in order to completely cover the *Mapetex Sel*.
- Adjacent sheets of *Mapetex Sel* must overlap by at least 2" (5 cm) at junction points.
- During waterproofing operations, take special care in the areas adjacent to expansion joints and where there are changes of plane (horizontal to vertical surfaces). Use *Mapeband*™ alkali-resistant rubber tape with felt backing or *Mapeband TPE* thermoplastic polymer tape with synthetic elastomers for these applications (see associated TDSs).
- After applying *Mapelastick* or *Mapelastick Smart*, wait until dry (typically from 1 to 5 days) before laying ceramic material. Drying time depends on temperature and humidity.

## STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

We proudly support the following industry organizations:



**MAPEI Headquarters of the Americas**  
1144 East Newport Center Drive  
Deerfield Beach, Florida 33442  
Phone: 1-888-US-MAPEI  
(1-888-876-2734)

**Technical Services**  
1-800-992-6273 (U.S. and Puerto Rico)  
1-800-361-9309 (Canada)  
**Customer Service**  
1-800-42-MAPEI (1-800-426-2734)

**Services in Mexico**  
0-1-800-MX-MAPEI (0-1-800-696-2734)

**Edition Date:** July 26, 2011  
PR5651 MTXD\_G11Evp © 2011 MAPEI Corporation.  
All Rights Reserved. Printed in the USA.