

CEMENTITIOUS MEMBRANES FOR BALCONIES AND TERRACES

Quality-assured waterproofing



**MAPELASTIC AND MONOLASTIC RANGE.
FLEXIBLE CEMENTITIOUS
PRODUCTS FOR WATERPROOFING
BALCONIES AND TERRACES.**

CEMENTITIOUS MEMBRANES FOR BALCONIES AND TERRACES

Quality-assured waterproofing

Mapei Group has always been committed to research, with the main goal of granting the end user **innovative and durable solutions, certified** in compliance with the highest standards.

Cutting-edge technology solutions meeting any designer's and end user's requirements and always providing the best service for any need.

Mapelastic range products have been well renowned in the building market for over 30 years, as the equivalent of reliable and guaranteed waterproofing. **Monolastic**, the one-component high quality solution, completes the range's offer.

The high **flexibility** even at **low temperatures** and the **excellent adhesion** to substrates make these products ideal for **applications** both in **new** and **already existing structures**, since they guarantee a quick and perfect waterproofing in every season and at low thicknesses. They are extremely versatile and can be used on many types of substrates with various tools, to meet the different needs of every user.



Deteriorated front edges



Water infiltrations



Moss growing between tiles



Standing water



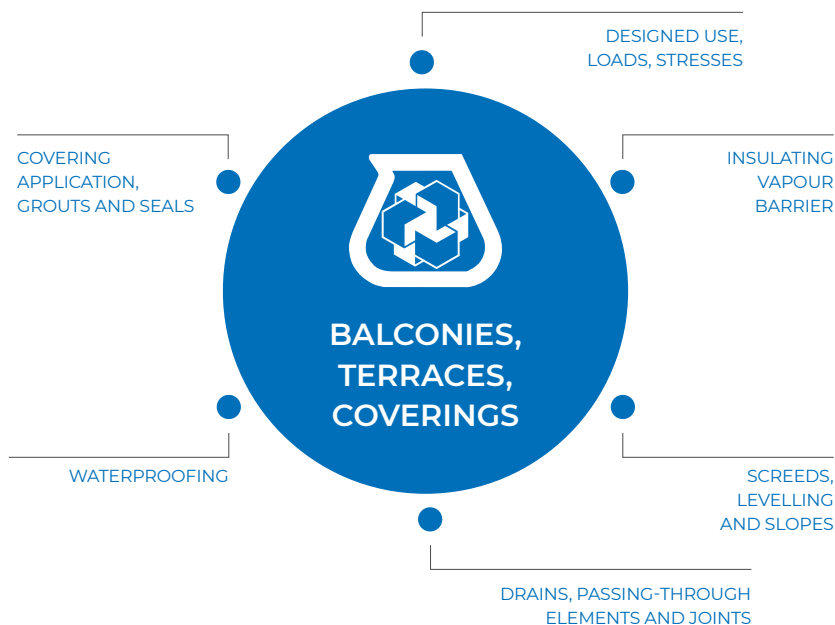
How to make the right choice

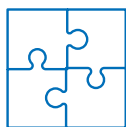
From design to waterproofing.

When a balcony or terrace is created or restored, the highest priority is usually given to aesthetic appearance.

Instead, a **correct design of the waterproofing system** should be taken in higher consideration, since it is essential for granting **the structure's durability**.

There are some key steps to take into consideration during design in order to obtain a suitable waterproofing system.





Waterproofing systems



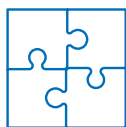
Waterproofing system of a balcony or terrace, on existing covering

- | | |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1 Mapeband Easy
Rubber tape | 4 Mapenet 150 / Mapetex Sel N
Glass fibre reinforcing mesh /
non-woven polypropylene fabric |
| 2 Drain Vertical
Floor drain | 5 Mapelastick Zero /
Mapelastick Turbo
2 nd coat - Two-component
cementitious waterproofer |
| 3 Mapelastick Zero /
Mapelastick Turbo
1 st coat - Two-component
cementitious waterproofer | |



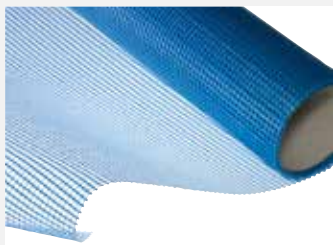
Waterproofing system of a newly built balcony or terrace

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <p>1 Mapeband SA
Self-adhesive butyl tape</p> <p>2 Monolastic - 1st coat
One-component cementitious waterproofing mortar</p> <p>3 Mapenet 150
Glass fibre reinforcing mesh</p> | <p>4 Monolastic - 2nd coat
One-component cementitious waterproofing mortar</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



Waterproofing systems ancillary products

REINFORCING ELEMENTS



Mapenet 150

Alkali-resistant glass fibre mesh (in compliance with ETAG 004 par. 5.6.7.1 guidelines) for reinforcing protective waterproofing systems.



Mapetex Sel N

Non-woven polypropylene fabric for reinforcing waterproof membranes.

DRAINS



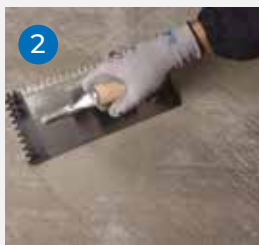
Drain Vertical Drain Lateral

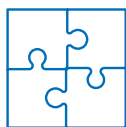
Complete kit to install floor drains. Ideal for draining off water from terraces, balconies, bathrooms, boiler rooms, wash-rooms, etc.



Drain Front

TPE angular drain for terraces and balconies.





Waterproofing systems ancillary products

TAPES



Mapeband

Alkali-resistant rubber-backed tape with felt for cementitious waterproofing systems and liquid membranes.



Mapeband Easy

Rubber tape sandwiched between two layers of non-woven fabric to form elastic joints in waterproofing systems.



Mapeband TPE

TPE tape for flexible sealing and waterproofing of expansion joints and cracks subject to movement.



Mapeband SA

Self-adhesive butyl tape with alkali-resistant, non-woven fabric backing for elastic waterproofing systems.





Mapelastic and Monolastic range

A complete range of waterproofing cementitious membranes.



MAPELASTIC ZERO

Mapelastic Zero is a two-component, flexible, cementitious waterproofer for balconies, terraces, swimming pools and damp environments with CO₂ fully offset in the entire life cycle.

MAPELASTIC TURBO

Mapelastic Turbo is a cementitious membrane that allows waterproofing of balconies and terraces, even when not perfectly dry, provided they are well cured. Easy and quick to use in every season, even at low temperatures.



MONOLASTIC

Monolastic is a one-component cementitious waterproofer, easy to prepare and apply even at low temperatures with CO₂ fully offset in the entire life cycle.

CO₂ emissions measured throughout the life cycle of products from the Zero line in 2023 using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of certified carbon credits in support of renewable energy and forestry protection projects. A commitment to the planet, to people and to biodiversity. For more details on how emissions are calculated and on climate mitigation projects financed through certified carbon credits, visit the webpage zero.mapei.com.





The **advantages** of waterproofing systems

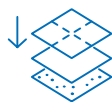
Waterproofing systems created with **Mapelastic Zero**, **Mapelastic Turbo** or **Monolastic** are extremely versatile. They can be used both in new constructions and in renovation projects. The high **adhesion** to substrates, the **flexibility** and **low thickness** of the membranes guarantee complete watertightness and durability to balconies and terraces.



COMPLETE WATERTIGHTNESS
OF BOTH NEW AND EXISTING SUBSTRATES



EXCELLENT ADHESION
TO SUBSTRATES



COVERING
CAN BE APPLIED DIRECTLY
ON THE WATERPROOFING LAYER



HIGH CRACK-BRIDGING LEVEL
AT LOW TEMPERATURES



LOW THICKNESS
PERFECT FOR RENOVATION WORKS
EVEN ON EXISTING FLOORING



CE MARKED MEMBRANES
COMPLIANT WITH 1504-2 AND 14891 STANDARDS



PRODUCTS WITH CO₂ EMISSIONS
FULLY OFFSET



Application in **new constructions**

1

Accurately verify the substrates' conditions.



2

Where cracks are present, sealing must be carried out by pouring **Eporip** and subsequently broadcast with quartz sand.

4

For structural joints use **Mapeband TPE** bonded to the substrate with **Adesilex PG4** and subsequent broadcast of quartz sand. The edges must be joined using **Adesilex LP** or through heat-welding.



5

For creating floor or parapet drains use accessories from the **Drain** range.

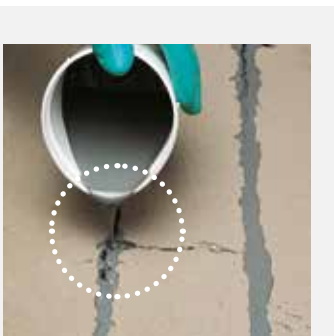
7

When the first coat is dry, apply the second coat of **Mapelastico Zero**, **Mapelastico Turbo** or **Monolastico**.



8

Then apply the adhesive for bonding the covering.



3

Then apply **Mapeband** or **Mapeband Easy** in contraction joints and where floor/wall joints are located.



6

Then carry out the waterproofing applying the first coat of **Mapelastic Zero**, **Mapelastic Turbo** or **Monolastic** with embedded **Mapenet 150** or **Mapetex Sel N** reinforcing elements.



9

Grout and seal the joints.





Application in **renovation projects**

1

Verify the adhesion of existing coverings. Prepare the surfaces through sanding or accurate cleaning with caustic soda and subsequent rinse.



2

Level off the surfaces and restore slopes using **Adesilex P4** or **Planitop Fast 330**.

4

For structural joints use **Mapeband TPE** bonded to the substrate with **Adesilex PG4** and subsequent broadcast of quartz sand. The edges must be joined using **Adesilex LP** or through heat-welding.



5

For creating floor or parapet drains use accessories from the **Drain** range.

7

When the first coat is dry, apply the second coat of **Mapelastix Zero**, **Mapelastix Turbo** or **Monolastic**.



8

Then apply the adhesive for bonding the covering.



3

Then apply **Mapeband** or **Mapeband Easy** in contraction joints and where floor/wall joints are located.



6

Then carry out the waterproofing applying the first coat of **Mapelastic Zero**, **Mapelastic Turbo** or **Monolastic** with embedded **Mapenet 150** or **Mapetex Sel N** reinforcing elements.



9

Grout and seal the joints.





Projects created with **cementitious membranes**

Accommodation facilities

Royal Gardens - Budva, Montenegro



Shangri La Village - San Salvo, Italy

Grand Hotel Da Vinci - Cesenatico, Italy

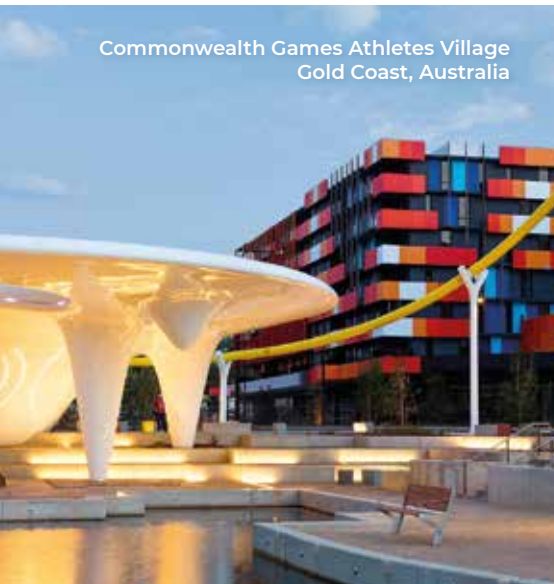




Projects created with **cementitious membranes**

Public and private structures

Commonwealth Games Athletes Village
Gold Coast, Australia



Angelini Pharma Headquarters
Rome, Italy



"Tor Vergata" University of Rome - Rome, Italy

Residential buildings

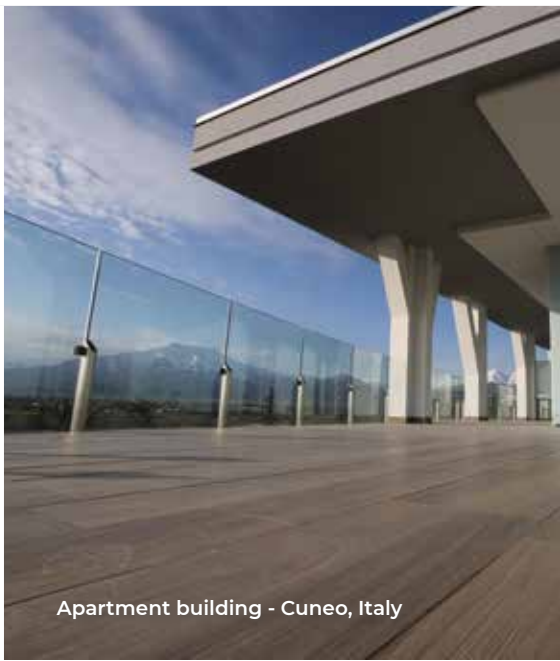
Private Villa - Santa Lucia di Piave, Italy



Corte Visconti Apartments - Rho, Italy



Apartment building - Cuneo, Italy





Projects created with **cementitious membranes**

Swimming pools

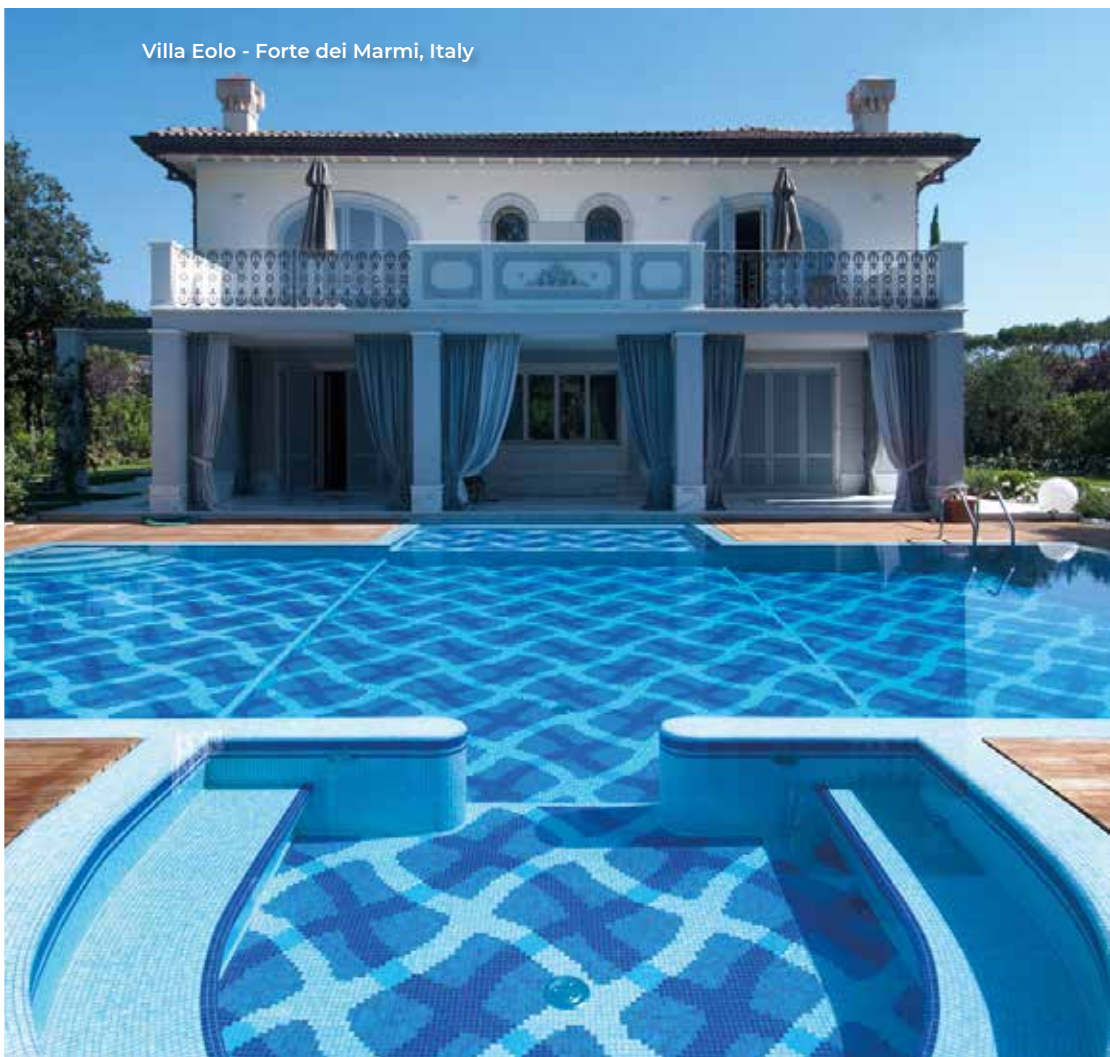
Grand Hotel Da Vinci, outdoor pool
Cesenatico, Italy



Private pool - Ancona, Italy



Villa Eolo - Forte dei Marmi, Italy



EVERYTHING'S OK, WITH MAPEI

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