

## CONSOLIDATING AND STRENGTHENING



## DEHUMIDIFYING



## REBUILDING AND RENDERING



## SKIMMING



# SOLUTIONS FOR ALL TYPES OF MASONRY

Surface consolidators,  
Chemical barriers,  
Injection slurries,  
Masonry and skimming mortars



## Mapei solutions for masonry buildings

### CONSOLIDATORS

Materials for treating and **consolidating the surface** of **exposed-finish masonry** and **stone substrates**.

### MAPESTOP RANGE

Products and accessory items to **create chemical barriers** to counter **capillary rising damp**.

### MAPE-ANTIQUE RANGE

**Cement-free, lime-based** products containing recycled materials for rehabilitation and conservative restoration work; compatible with all types of masonry, including of **historical and artistic interest**.

### MAPE-ANTIQUE NHL ECO RANGE

**Cement-free, natural hydraulic lime-based** eco-sustainable mortars containing **recycled materials**; also suitable for the **green building** sector.

### POROMAP RANGE

**Dehumidifying systems**, resistant to salts, **simple** and **quick** application.

### MAPEWALL RANGE

Natural hydraulic lime-based mortars for **rendering**, **strengthening** and **consolidating all types of masonry**.

### MAPEWOOD RANGE

Products and materials for restoring and strengthening **wooden structures**.

## CONSOLIDATING AND STRENGTHENING



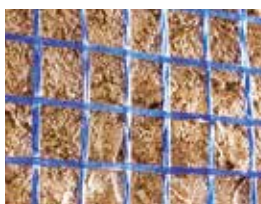
## PRIMERS AND SURFACE CONSOLIDATORS

Primer 3296 .....	8
Consolidante 8020 .....	9
Consolidante ETS and Consolidante ETS WR.....	10



## INJECTION SLURRIES

MapeWall Inject & Consolidate.....	11
Mape-Antique I and Mape-Antique I-15 .....	12
Mape-Antique F21.....	13

STRUCTURAL RENDERS AND  
"REINFORCED" RENDERS (CRM)

MapeWall Render & Strengthen.....	14
Mape-Antique Strutturale NHL .....	16

EPOXY ADHESIVES  
FOR WOODEN STRUCTURES

Mapewood System .....	18
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## DEHUMIDIFYING

SINGLE-PRODUCT  
SINGLE-LAYER RENDERS

PoroMap Deumidificante.....	22
Mape-Antique NHL ECO Risana.....	24

TRADITIONAL SYSTEM  
(SCRATCH COAT + RENDER)

Mape-Antique Rinzafo + Mape-Antique MC or Mape-Antique MC Macchina .....	26
---	----



## CHEMICAL BARRIERS

Mapestop Cream and Mapestop Cream Tool .....	28
Mapestop and Mapestop Kit Diffusion .....	30

## REBUILDING AND RENDERING



## MASONRY MORTARS

MapeWall Muratura Grosso.....	34
MapeWall Muratura Fine.....	35
Mape-Antique Allettamento .....	36
Mape-Antique Colabile .....	37



## RENDERS

MapeWall Intonaco Base .....	38
Mape-Antique Intonaco NHL .....	39
Mape-Antique NHL ECO Restaura .....	40

## SKIMMING MORTARS



## BREATHABLE SKIMMING MORTARS

PoroMap Finitura Civile.....	46
PoroMap Finitura Granello.....	47
Mape-Antique NHL ECO Rasante Civile.....	48
Mape-Antique NHL ECO Rasante Grosso.....	49
Mape-Antique FC Ultrafine.....	50
Mape-Antique FC Civile.....	51
Mape-Antique FC Grosso.....	52
Mapenet 150.....	53

## WATERPROOFING AND PROTECTING HISTORIC BUILDINGS



## ELASTIC COATING

Mape-Antique Ecolastic.....	56
-----------------------------	----

## SUPPLEMENTARY PRODUCTS AND SYSTEMS



## SUPPLEMENTARY PRODUCTS

PoroMap Rinzafo Plus.....	60
Mape-Antique NHL ECO Rinzafo.....	61
Mape-Antique LC.....	62



## DAMP IN UNDERGROUND MASONRIES

Cementitious anti-condensation system.....	64
Lime-based anti-condensation system for historic buildings.....	65

Mapei answers your queries.....	66
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## CERTIFICATION KEY



EN 998-2  
G-M15



EN 998-1  
GP-CS IV



EN 998-1  
R-CS II



AT CLASS



EN 998-1  
GP-CS II



EN 998-2  
G-M10



EN 998-2  
G-M2,5



EN 998-2  
G-M5



EN 15824  
V3-W3



EN 14891  
CM01P



EN 1504-2  
(C) PI-MC-IR



EC1 PLUS

## CHARACTERISTICS KEY



CEMENT-FREE



RECYCLED  
MATERIAL



LIME-BASED



NHL-BASED



FIBRE-REINFORCED  
FOR RENDER AND  
REINFORCED (CRM) RENDER



RESISTANT  
TO UV RAYS



HIGHLY  
BREATHABLE



EASY TO USE



SOLVENT-FREE



POSITIVE HYDRAULIC  
THRUST



NEGATIVE HYDRAULIC  
THRUST

All information and full use and application procedures for every product and system are included in the relative **technical data sheets**, **safety data sheets** and **DOPs** and in all the other numerous documents available for download at [www.mapei.com](http://www.mapei.com) in the **products and solutions** section.





## Solutions for consolidating and strengthening masonry and wooden structures

Mapei offers a series of **anti-dust treatments** and **materials for surface-consolidation** of render, exposed-finish masonry and substrates in general, including frescoed substrates.

Volumetrically-stable **injection slurries** allow gaps in masonry to be filled and to re-bond the layers that form the masonry. The products and systems offered by Mapei for consolidating and strengthening work is integrated by various NHL-based, high-performance **rendering and masonry mortars** used in combination with other types of strengthening systems and **epoxy adhesives** for strengthening wooden beams and joists.

# Primer 3296

## DESCRIPTION

### Consolidating and anti-dust acrylic primer in water dispersion

**Acrylic primer** for treating the surface of render, solid brick, sandstone, tuff, and Leccese stone masonry and cement and lime-based building mortar.

## TYPICAL AREAS OF USE

- Consolidating the surface of cementitious render, tuff and sandstone.
- Primer for cementitious skimming and smoothing mortars.
- Impregnator to eliminate dust from old, interior exposed-brick masonry, vaulted ceilings, etc.
- Anti-dust treatment for cementitious surfaces.
- Preparing screeds with a dusty surface before installing parquet flooring with vinyl adhesive.
- Impregnator for cementitious grout lines with surface dust without reducing their porosity and absorbency (interior surroundings).

## ADVANTAGES

- **High penetration.**
- For all types of masonry.
- **Does not affect the permeability or colour of the substrate.**

## APPLICATION

- Brush, roller or spray.
- Suitable for internal and external use.
- Dilute with water.

## CERTIFICATION AND MARKING



## CHARACTERISTICS



SOLVENT FREE

### DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Primer 3296



## PACKAGING

5 and 10 kg cans.

## CONSUMPTION

0.1 to 0.5 kg/m<sup>2</sup>, according to the absorbency of the substrate.



# Consolidante 8020

## DESCRIPTION

### Copolymer-based consolidator

**Reversible consolidator in solvent** for the conservative restoration and consolidation of porous stone substrates, lime render, gypsum and paintwork.

## TYPICAL AREAS OF USE

- Deep-down consolidation of porous stone substrates.
- Consolidating porous stone such as sandstone, tuff, etc.
- Consolidating crumbling brickwork.
- Open-pore consolidation of antique and modern render.
- Consolidating various types of render.
- Consolidating lime-based paintwork.
- Consolidating stone, brickwork and existing render, including of historical and artistic interest and listed buildings.

## ADVANTAGES

- **High penetration.**
- For all types of substrate, including of historical and artistic interest.
- **Does not affect the permeability or colour of the substrate.**

## APPLICATION

- Brush, roller or spray.
- Suitable for internal and external use.
- Supplied ready to use.

## RELATED PRODUCTS AND APPLICATIONS

- Masonry mortar: **Mape-Antique Allettamento** (page 36)
- Water-repellent treatment: **Antipluvial S**

## CHARACTERISTICS



HIGH TRANSPIRATION

### DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Consolidante 8020



## PACKAGING

10 kg metal can.

## CONSUMPTION

0.1 to 1 kg/m<sup>2</sup>, according to the absorbency of the substrate.





# Consolidante ETS and Consolidante ETS WR

## DESCRIPTION Ethyl silicate-based consolidator in solvent

Consolidator for the **conservative restoration** and **consolidation** of porous stone, bricks, terracotta and render.

## TYPICAL AREAS OF USE

- Deep-down consolidation of silicate and carbonate stone substrates.
- Consolidating porous stone such as sandstone, tuff, etc.
- Consolidating crumbling brickwork and terracotta.
- Open-pore consolidation of antique and modern render.
- Consolidating various types of render.
- Consolidating paintwork.
- Consolidating stone, brickwork and existing render, including of historical and artistic interest and listed buildings.

## ADVANTAGES

- **High penetration.**
- For all types of substrate, including of historical and artistic interest.
- **Does not affect the permeability or colour of the substrate.**
- **Consolidante ETS** has excellent **consolidating properties.**
- **Consolidante ETS WR** combines consolidating power with **good water-repellence.**

## APPLICATION

- Brush, roller or spray.
- Suitable for internal and external use.
- Supplied ready to use.

## RELATED PRODUCTS AND APPLICATIONS

- Masonry mortar: **Mape-Antique Allettamento** (page 36).
- Water-repellent treatment: **Antipluvial S.**

## CHARACTERISTICS



## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Consolidante ETS  
and Consolidante ETS WR



## PACKAGING

10 kg metal can.

## CONSUMPTION

0.1 to 1 kg/m<sup>2</sup>, according to the absorbency of the substrate.



# MapeWall Inject & Consolidate

## DESCRIPTION Super-fluid NHL and cement-based slurry

Reactive **natural hydraulic lime-based** inorganic **binder** with very low emission of VOC used to make **super-fluid injection slurry** for **consolidating masonry**.

## TYPICAL AREAS OF USE

- Mixing super-fluid, volumetrically-stable injection slurry for consolidating:
- Foundations, pillars, vaulted roofs and archways;
  - "Cement-core" walls;
  - Stone, brick, tuff and mixed masonry on existing buildings with cracks or small to large internal gaps and cavities, including of historical or artistic interest.

## ADVANTAGES

- **Filling** cement-core masonry structures and **all types** of disorderly and/or unstable masonry.
- **Volumetrically stable.**
- Also recommended for **anchoring** steel and composite **bars**.

## APPLICATION

- Injection with a low-pressure manual or electronic pump.
- Casting.

## RELATED PRODUCTS AND APPLICATIONS

- **Mape-Antique Allettamento** masonry mortar (page 36) and **MapeWall Muratura Fine** (page 35).

## CERTIFICATION AND MARKING



## CHARACTERISTICS



## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
MapeWall  
Inject & Consolidate



## PACKAGING

20 kg bag.

## CONSUMPTION

Approx. 1.50 kg/dm<sup>3</sup> (of cavities to be filled).



# Mape-Antique I and Mape-Antique I-15

## DESCRIPTION

### High-performance super-fluid slurry

**Super-fluid**, salt-resistant **lime** and Eco-Pozzolan-based **hydraulic binder** used to make injection slurry for **consolidating masonry**.

## TYPICAL AREAS OF USE

Mixing slurry with high resistance to soluble salts for consolidating:

- Foundations, pillars, vaulted roofs and archways;
- "Cement-core" walls;
- Stone, brick, tuff and mixed masonry in general with cracks and internal gaps on old buildings, including of historical or artistic interest and listed buildings;
- Masonry with capillary rising damp and/or contaminated by soluble salts.



## ADVANTAGES

- **Filling** cement-core masonry structures and **all types** of disorderly and/or unstable masonry.
- **Volumetrically stable**.
- Recommended for **historic buildings** and the **green building** sector.
- Contains **recycled materials**:
- Also recommended for **anchoring** stainless steel and composite **bars**.

## PACKAGING

20 kg bag.

## CONSUMPTION

approx. 1.40 – 1.50 kg/dm<sup>3</sup> (of cavities to be filled).

## APPLICATION

- Injection with a low-pressure manual or electronic pump.
- Casting.

## RELATED PRODUCTS AND APPLICATIONS

- **Mape-Antique Allettamento** masonry mortar (page 36) and **MapeWall Muratura Fine** (page 35).

## CHARACTERISTICS



RECYCLED MATERIAL



CEMENT FREE



Data Sheet  
Mape-Antique I



Structural  
strengthening manual

## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



# Mape-Antique F21

## DESCRIPTION

### Super-fluid consolidating slurry, also suitable for frescoed surfaces

**Super-fluid**, salt-resistant, lime and Eco-Pozzolan-based **hydraulic binder** with **fillers** used to make injection slurry for **consolidating masonry and render**.

## TYPICAL AREAS OF USE

Mixing super-fluid injection slurry with high resistance to soluble salts for consolidating:

- Foundations, pillars, vaulted roofs and archways.
- "Cement-core" walls and stone, brick, tuff and mixed masonry in general with cracks and internal gaps and cavities, including small cracks, on old buildings, including of historical or artistic interest and listed buildings;
- Masonry with capillary rising damp and/or contaminated by soluble salts;
- Structures with frescoed surfaces; render detached from masonry, including with frescoes or of historical and artistic interest.



## ADVANTAGES

- **Filling** cement-core masonry and **all types** of disorderly and/or unstable masonry.
- **Re-bonding frescoed surfaces** to substrates.
- **Volumetrically stable**.
- Recommended for **historic buildings** and the **green building** sector.
- Contains **recycled materials**.
- Also recommended for **anchoring** stainless steel and composite **bars**.

## PACKAGING

17 kg bag.

## CONSUMPTION

Approx. 1.04 kg/dm<sup>3</sup> (of cavities to be filled).

## APPLICATION

- By injection with a low-pressure manual or electronic pump.
- Casting.
- By injection with a syringe.

## RELATED PRODUCTS AND APPLICATIONS

- **Mape-Antique Allettamento** masonry mortar (page 36) and **MapeWall Muratura Fine** (page 35).

## CHARACTERISTICS



RECYCLED MATERIAL



CEMENT FREE

## FOR ASSISTANCE OR INFORMATION

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique F21





# MapeWall Render & Strengthen

## DESCRIPTION

### Strengthening with high-performance fibre-reinforced render and reinforced (CRM) render

High-performance, fibre-reinforced, **natural hydraulic lime-based breathable** rendering and masonry **mortar** with very low emission of VOC to make **structural render, "reinforced" (CRM) render and building mortar**.

## TYPICAL AREAS OF USE

- New high-performance breathable render for stone, brick, tuff and mixed masonry.
- New render "reinforced" with steel or composite material on weak masonry.
- New render for installing ceramic or stone coating.
- "Reinforced capping" for the extrados of vaulted roofs.
- Pointing "exposed-finish" stone, brick and tuff masonry.
- Mortar joints, including "reinforced" joints.
- Facing walls with high-performance masonry mortar to comply with requirements in seismic risk zones.
- Patching and plumbing facing walls with gaps and uneven surfaces.

## ADVANTAGES

- **Breathable fibre-reinforced mortar.**
- May be used for **rendering** and as **masonry mortar**.
- Suitable for **CRM** systems.
- **Excellent adhesion**, suitable for **installing ceramic and stone coatings**.

## APPLICATION

- By trowel or with a rendering machine.
- Suitable for internal and external use.
- Minimum thickness 1 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Range with the relevant connectors: **Mapenet EM Connector** or **Mapenet EMR Connector**.
- Chemical anchor: **Mapefix VE SF**.
- Skimming mortars: **Mape-Antique ECO Rasante** range (page 48 and 49), **Mape-Antique FC** range (page 50,51 and 52) or **Planitop** range.

## WOULD YOU PREFER A CEMENT-FREE, LIME-BASED PRODUCT AS AN ALTERNATIVE OR DO YOU NEED ASSISTANCE?

On page 18 you will find information about **Mape-Antique Strutturale NHL** or write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Structural strengthening manual



Data Sheet MapeWall Render & Strengthen



## PACKAGING

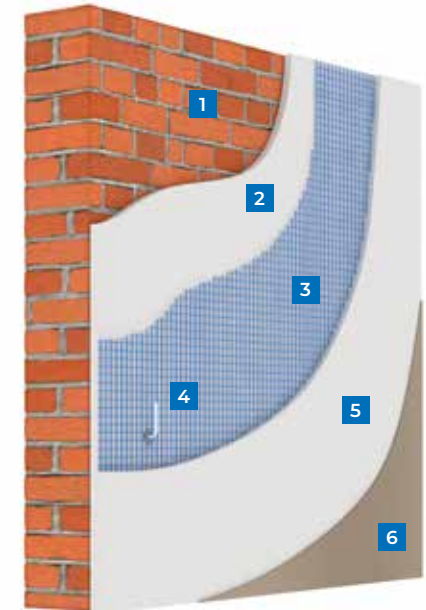
25 kg bag.

## CONSUMPTION

approx. 16 kg/m<sup>2</sup> (per 1 cm of thickness).

## Strengthening with reinforced render: CRM System

- 1 Existing masonry
- 2 MapeWall Render & Strengthen
- 3 Mapenet EM 30 or EM 40
- 4 Mapenet EM Connector
- 5 MapeWall Render & Strengthen
- 6 Mape-Antique NHL ECO Rasante Civile



## CHARACTERISTICS



NHL BASED



HIGHLY BREATHABLE



FIBRE-REINFORCED FOR RENDER AND REINFORCED (CRM) RENDER

## CERTIFICATION AND MARKING



# Mape-Antique Strutturale NHL

## DESCRIPTION

### Strengthening with natural hydraulic lime

High-performance, fibre-reinforced, pure natural hydraulic lime and Eco-Pozzolan-based masonry and "breathable" rendering mortar, particularly recommended for making "reinforced" (CRM) render and as installation mortar.

## TYPICAL AREAS OF USE

- New internal and/or external high-performance, breathable render for stone, brick, tuff and mixed masonry.
- New render or refurbishing existing render on masonry, including of historic and artistic interest and listed buildings.
- New render "reinforced" with stainless steel or composite mesh.
- "Reinforced capping" for the extrados of vaulted roofs.
- Pointing "exposed-finish" stone, brick and tuff masonry.
- Mortar joints, including "reinforced" joints.
- Facing walls with high-performance masonry mortar to comply with requirements in seismic risk zones.
- Patching and plumbing facing walls with gaps and uneven surfaces.

## ADVANTAGES

- **Breathable fibre-reinforced mortar.**
- May be used for **rendering** and as **masonry mortar**.
- Suitable for **CRM** systems.
- Recommended for historic buildings and the green building sector.
- Contains **recycled materials**.

## APPLICATION

- By trowel or with a rendering machine.
- Suitable for internal and external use.
- Minimum thickness 1 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Range with the relevant connectors: **Mapenet EM Connector** or **Mapenet EMR Connector**.
- Chemical anchor: **Mapecif VE SF**.
- Skimming mortars: **Mape-Antique ECO Rasante** range (page 48 and 49) or **Mape-Antique FC** range (page 50-52).

## ARE YOU CARRYING OUT WORK ON A LISTED BUILDING, OR DO YOU NEED ASSISTANCE?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique Strutturale NHL



## PACKAGING

25 kg bag.

## CONSUMPTION

approx. 17 kg/m<sup>2</sup>  
(per cm of thickness).

## Strengthening with reinforced render: CRM System

- 1 Mape-Antique Strutturale NHL
- 2 Mapenet EM 30 or EM 40
- 3 Mapenet EM Connector
- 4 Mape-Antique Strutturale NHL
- 5 Silexcoolor Base Coat
- 6 Silexcolor Tonachino



## CHARACTERISTICS



NHL  
BASED



CEMENT  
FREE



RECYCLED  
MATERIAL



HIGHLY  
BREATHABLE



FIBRE-REINFORCED  
FOR RENDER AND REINFORCED  
(CRM) RENDER

## CERTIFICATION AND MARKING



# Mapewood System

## DESCRIPTION

### Mapewood Primer 100

Fluid epoxy impregnator in water dispersion for consolidating and **priming wooden structures**.

### Mapewood Gel 120

**Epoxy adhesive gel** for restoring wooden structural elements.

### Mapewood Paste 140

**Thixotropic epoxy adhesive** for restoring wooden structural elements.

## TYPICAL AREAS OF USE

- **Consolidating** wooden structural elements damaged by fungi or infested with wood-boring insects.
- **Repairing** beams, A-frames and pillars in spruce, pine, poplar, oak, chestnut or other types of wood that need to be reintegrated by joining another piece of wood and anchoring it, if necessary, to the original element with metal or composite bars and plates.
- Flexural **strengthening** of beams and joists for wooden floors by bonding pultruded **Maperod C** carbon fibre or **Maperod G** glass fibre bars with epoxy resin in pockets formed along the side of the elements and/or to the intrados of the beams or joists.

*When designing the strengthening package, follow the instructions in CNR DT 201/2005, "Guidelines for the Static Consolidation of Wooden Structures with Fibre-reinforced Composites".*

## ADVANTAGES

- High-performance system
- Recommended for historic buildings

## DO YOU NEED ASSISTANCE?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Structural strengthening manual



## PACKAGING

### Mapewood Primer 100

1 kg kit (comp. A 0.5 kg and comp. B 0.5 kg).

### Mapewood Gel 120

2.5 kg kit (comp. A 2 kg and comp. B 0.5 kg).

### Mapewood Paste 140

3 kg kit (comp. A 2 kg and comp. B 1 kg).

## CONSUMPTION

### Mapewood Primer 100

100 approx. 150 g/m<sup>2</sup>.

### Mapewood Gel 120

1.01 kg/dm<sup>3</sup>  
(of cavities to be filled).

### Mapewood Paste 140

1.59 kg/dm<sup>3</sup>  
(of cavities to be filled).

## APPLICATION

- Application of **Mapewood Primer 100**  
Brush or roller.
- Application of **Mapewood Gel 120**  
Pouring or with a special extruder.
- Application of **Mapewood Paste 140**  
Metal trowel.

## RELATED PRODUCTS AND APPLICATIONS

- Strengthening bars: **Maperod C** and **Maperod G**.
- Carbon fibre strengthening plates: **Carboplate**.



- 1 Application of **Mapewood Primer 100** on the internal surface of a pocket where the strengthening material is to be inserted.

- 3 Applying a lath to cover the **Maperod**, strengthening bar positioned inside the pocket.

- 2 Application of **Carboplate**.







Folli dairy  
Robbiano di Mediglia - Italy

## Solutions for dehumidifying and rendering masonry, including in aggressive environments.

**Mapei** has a line of highly breathable, salt-resistant **single-product and single-layer dehumidifiers** available containing Pozzolan-reaction hydraulic binders or NHL. They also offer a **traditional hydrated lime-based system** with zero cement content, ideal for dehumidifying buildings, including historic buildings, in lagoon areas and exposed to the sea, or for use in the agricultural sector.

**Mapei** also has various highly-effective **chemical barriers** available for exposed-finish masonry with particularly high levels of damp.

# PoroMap Deumidificante

## DESCRIPTION

### Easy and quick

**Single-product, salt-resistant dehumidifying** render for renovating masonry with rising damp.

## TYPICAL AREAS OF USE

- Internal and/or external macro-porous, dehumidifying and insulating render for stone, brick, tuff and mixed masonry, including recent builds, with capillary rising damp and saline efflorescence.
- Dehumidifying render for particularly porous and absorbent stone (e.g. sandstone) and/or brick masonry, and masonry in general with saline efflorescence.
- Dehumidifying render for masonry in lagoon areas or close to the sea.
- Restoring deteriorated render on buildings built using mortar with low performance properties.
- Pointing "exposed-finish" stone, brick and tuff masonry.

## ADVANTAGES

- **Single product, single layer.**
- **Lightweight** with fibre fillers.
- For all types of masonry.
- High **resistance to salts**.
- **Very high breathability** ( $\mu \leq 10$ ) and **porosity** ( $>20\%$ ).
- May be prepared with a **drill and mixing attachment**.

## APPLICATION

- By trowel or with a rendering machine.
- Suitable for internal and external use.
- Minimum thickness 2 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Skimming mortars: **PoroMap Finitura Civile** and **PoroMap Finitura Granello** (page 46 and 47).
- Scratch-coat mortar: **PoroMap Rinzafo Plus** (page 60) for application on smooth substrates (such as concrete), weak substrates or anti-condensation systems (page 64 and 65).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** range.

## WOULD YOU PREFER A CEMENT-FREE, LIME-BASED DEHUMIDIFIER AS AN ALTERNATIVE?

On page 24 you will find information about **Mape-Antique NHL ECO Risana**

## DO YOU NEED ASSISTANCE?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
PoroMap Deumidificante

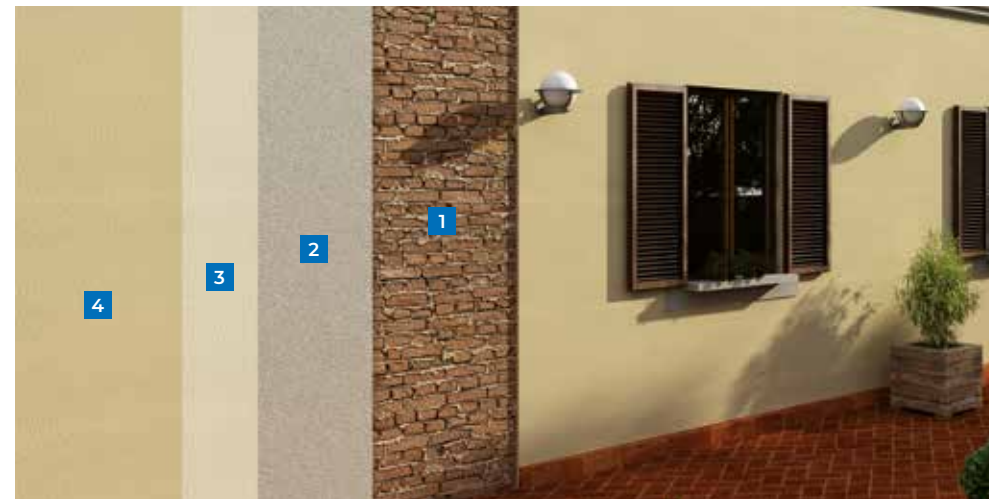


## PACKAGING

20 kg bag.

## CONSUMPTION

11 kg/m<sup>2</sup>  
(per cm of thickness).



## Renovating existing masonry with rising damp

- |                                 |                               |
|---------------------------------|-------------------------------|
| <b>1</b> Existing masonry       | <b>3</b> Silancolor Base Coat |
| <b>2</b> PoroMap Deumidificante | <b>4</b> Silancolor Tonachino |

## CHARACTERISTICS



HIGHLY  
BREATHABLE

## CERTIFICATION AND MARKING



A1 CLASS



# Mape-Antique NHL ECO Risana

## DESCRIPTION

### Dehumidify with lime

One-component, cement-free, pure natural hydraulic lime-based dehumidifying render with recycled materials for restoring masonry with rising damp.

## TYPICAL AREAS OF USE

- Macro-porous dehumidifying render for masonry, including recent builds, with capillary rising damp and saline efflorescence.
- New dehumidifying render or reintegrating old lime-based render for stone, brick, tuff and mixed masonry, including of historical and artistic interest and listed buildings.
- Dehumidifying render for masonry in lagoon areas or close to the sea.
- Renovating deteriorated render on buildings built using mortar with low performance properties.
- Pointing "exposed-finish" stone, brick and tuff masonry.

## ADVANTAGES

- **Single product, single layer.**
- **Lightweight** with fibre fillers.
- For all types of masonry.
- **Very high breathability** ( $\mu \leq 10$ ) and **porosity** ( $>20\%$ ).
- May be prepared with a **drill and mixing attachment**.
- Recommended for **historic buildings** and the **green building sector**.
- Contains **recycled materials**.

## APPLICATION

- By trowel or with a rendering machine.
- Suitable for internal and external use.
- Minimum thickness 2 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Skimming mortars: **Mape-Antique NHL ECO Rasante Civile** and **Mape-Antique NHL ECO Rasante Grosso** (page 48 and 49).
- Scratch-coat mortar: **Mape-Antique NHL ECO Rinzafo** (page 61) for application on smooth substrates (such as concrete), weak substrates or anti-condensation systems (page 64 and 65).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** range.

## WOULD YOU PREFER A CEMENT-FREE, LIME-BASED DEHUMIDIFIER AS AN ALTERNATIVE?

On page 26 you will find information about the **Mape-Antique Cycle**.

## DO YOU NEED ASSISTANCE?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique NHL ECO Risana



## PACKAGING

20 kg bag.

## CONSUMPTION

11 kg/m<sup>2</sup>  
(per cm of thickness).



## Renovating with natural hydraulic lime

- |                                      |  |                           |
|--------------------------------------|--|---------------------------|
| <b>1</b> Existing masonry            | <b>3</b> Mape-Antique NHL ECO Rasante Civile | <b>5</b> Silexcolor Paint |
| <b>2</b> Mape-Antique NHL ECO Risana | <b>4</b> Silexcolor Primer                   |                           |

## CHARACTERISTICS



NHL  
BASED



CEMENT  
FREE



RECYCLED  
MATERIAL



HIGHLY  
BREATHABLE

## CERTIFICATION AND MARKING



A1 CLASS





# Mape-Antique Cycle

## DESCRIPTION

### Lime-based dehumidifying cycle for aggressive environments

**Lime-based** with Eco-Pozzolan and recycled materials. **Cement-free** and **resistant to saline aggression**.

## TYPICAL AREAS OF USE

- Macro-porous, dehumidifying render for existing masonry with capillary rising damp and saline efflorescence.
- Dehumidifying render for masonry in lagoon areas or close to the sea.
- New dehumidifying render or reconstructing old lime-based render on stone, brick, tuff and mixed masonry, including on buildings of historical and artistic interest and listed buildings.
- Patching and plumbing facing walls with gaps and uneven surfaces.
- Pointing "exposed-finish" stone, brick and tuff masonry.

## ADVANTAGES

- **Very high resistance to salts** (buildings facing the sea, etc.).
- For all types of masonry.
- **Very high breathability and porosity.**
- **Cement-free**, contains **recycled materials**.
- Ideal for **historic buildings**.
- Contains **recycled materials**.

## APPLICATION

- By trowel or with a rendering machine.
- Suitable for internal and external use.
- Minimum thickness: scratch coat 0.5 cm, render 2 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Scratch-coat mortar: **Mape-Antique FC** range (page 50, 51 and 52).
- Skimming mortars: **Mape-Antique Allettamento** (page 36).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** range.

## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique MC



## PACKAGING

**Mape-Antique Rinzafo**  
20 kg bag.

**Mape-Antique MC**  
25 kg bag.

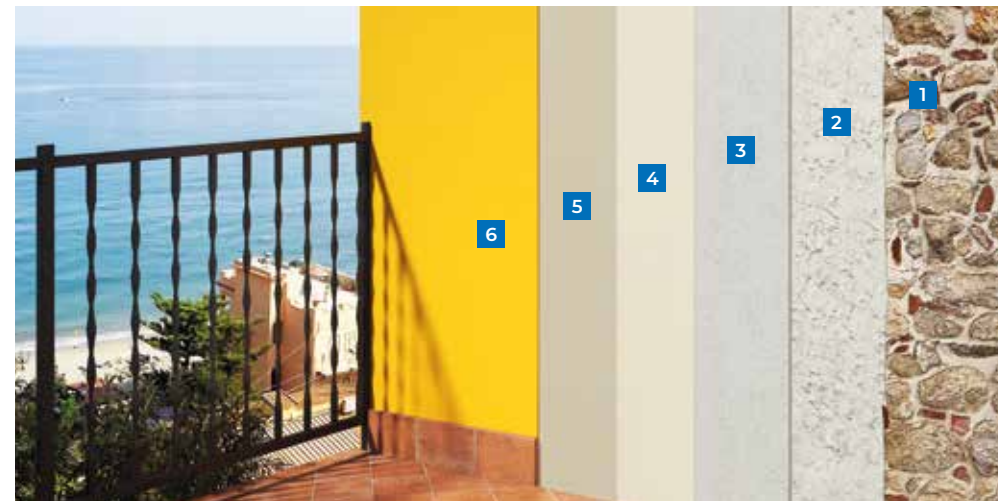
**Mape-Antique MC Macchina**  
25 kg bag.

## CONSUMPTION

**Mape-Antique Rinzafo**  
7.5 kg/m<sup>2</sup>  
(per 0.5 cm of thickness).

**Mape-Antique MC**  
15 kg/m<sup>2</sup>  
(per cm of thickness).

**Mape-Antique MC Macchina**  
16 kg/m<sup>2</sup>  
(per cm of thickness).



## Renovating sea-facing masonry

- |   |  |   |
|---|--|---|
| <b>1</b> Mixed masonry substrate                              | <b>3</b> Breathable render: <b>Mape-Antique MC</b>           | <b>5</b> Siloxane base coat: <b>Silancolor Primer</b> |
| <b>2</b> Breathable scratch coat: <b>Mape-Antique Rinzafo</b> | <b>4</b> Breathable skim coat: <b>Mape-Antique FC Grosso</b> | <b>6</b> Siloxane top coat: <b>Silancolor Paint</b>   |

## CHARACTERISTICS



LIME  
BASED



CEMENT  
FREE



RECYCLED  
MATERIAL



HIGHLY  
BREATHABLE

## CERTIFICATION AND MARKING

### Mape-Antique Rinzafo



A1 CLASS

### Mape-Antique MC and Mape-Antique MC Macchina



# Mapestop Cream

## DESCRIPTION

### The "do-it-yourself" chemical barrier

Monomeric silane-based **creamy emulsion** for creating chemical barriers **against capillary rising damp**.

## TYPICAL AREAS OF USE

The system may be used to block and/or considerably reduce rising damp from elements below ground level through the capillary pores present in all construction materials. It may be used for various applications in renovation work.

- Existing stone, solid brick, tuff, concrete and mixed masonry in lagoon areas and near to water courses or the sea.
- Concrete structures.
- Masonry with internal voids after being consolidated with injection slurry from the **Mape-Antique** or **MapeWall** ranges.
- Masonry where previous barriers are no longer effective, such as those made from bituminous sheets or bituminous membranes.
- Masonry made from cellular concrete blocks.
- Recently constructed masonry.
- Existing masonry, including of historic or artistic interest and listed buildings.

## ADVANTAGES

- **Simple and quick** application.
- **For all types of** compact stone, brick, tuff, concrete and mixed **masonry**, including exposed-finish masonry, **with high moisture content**.
- **Also recommended before installing external thermal insulation** on masonry with rising damp.
- **May be integrated with dehumidifying render**.
- **May also be applied on concrete structures**.

## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mapestop Cream



## PACKAGING

**Box of 12 x 280 ml cartridges** for use with a standard sealant gun.

**Box of 10 x 600 ml tubes**, including 1 x **Mapestop Cream Tool 600** injection tube for use with a manual **Mapei Gun 600 PRO** gun or similar.

## APPLICATION

- By cartridge loaded in a sealant gun.
- By tube loaded in a manual gun for 600 ml tubes.

## RELATED PRODUCTS AND APPLICATIONS

- Equipment/tools for injection from a cartridge:
  - ▶ Injectors: **Mapestop Cream Tool 280** in packs of 12 pieces.
  - ▶ Gun: **Mapei Gun 310** or similar.
- Equipment/tools for injection from a tube:
  - ▶ Injectors: **Mapestop Cream Tool 600** in packs of 4 pieces.
  - ▶ Gun: **Mapei Gun 600 PRO** or similar.
- Masonry mortar: **Mape-Antique Allettamento** (page 36).
- Dehumidifying render: **PoroMap Deumidificante** (page 22), **Mape-Antique NHL ECO Risana** (page 24) and **Mape-Antique Cycle** (page 26).
- Consolidators: compatible with all **Mapei consolidators** (page 9, 10 and 11).

## CONSUMPTION

Thickness of masonry (cm)	600 ml tube: linear metres of masonry	280 ml cartridge: linear metres of masonry
14	0.2 pz	0.5 pz
27	0.5 pz	1 pz
40	0.7 pz	1.5 pz
50	0.8 pz	1.8 pz
60	1 pz	2.1 pz

## CHARACTERISTICS



EASY  
TO USE



## DESCRIPTION

### Against capillary rising damp

Concentrated, silane and siloxane-based, silicone **microemulsion** for creating chemical barriers **against capillary rising damp**.

## TYPICAL AREAS OF USE

The system may be used to block and/or considerably reduce rising damp from elements below ground level. Suitable for various applications in renovation work.

- Existing stone, solid brick, tuff, concrete and mixed masonry in lagoon areas and near to water courses or the sea.
- Cement-core walls after being consolidated with injection slurry.
- Masonry where previous barriers are no longer effective, such as those made from bituminous sheets or bituminous membranes.
- Masonry made from cellular concrete blocks.
- Recently constructed masonry if built from solid rather than perforated bricks.
- Existing masonry, including of historic or artistic interest and listed buildings.

## ADVANTAGES

- **Liquid emulsion to be diluted with water.**
- **Double application:** by slow diffusion or with a low-pressure pump.
- **For all types of** porous stone, brick, tuff, concrete and mixed **masonry**, including exposed-finish masonry, with high moisture content.
- **Also recommended before installing external thermal insulation** on masonry with rising damp.
- **May be integrated with dehumidifying render.**

DO YOU NEED ASSISTANCE OR FURTHER INFORMATION, OR WOULD YOU LIKE TO CONTACT A SPECIALISED COMPANY?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it) or visit our website [www.mapei.it](http://www.mapei.it)



Data Sheet  
Mapestop



## PACKAGING

1 kg metal can with integrated spout.

10 kg metal drum.

## APPLICATION

- Slow-diffusion **gravity injection** or with a suitable **low-pressure** (max 1 bar) **pneumatic air pump** until the area being treated is completely saturated.

## RELATED PRODUCTS AND APPLICATIONS

- Equipment/tools for slow-diffusion gravity injection: **Mapestop Kit Diffusion** and **Mapestop Injectors** (spares).
- Equipment/tools for low-pressure injection: pneumatic air pump.
- Masonry mortar: **Mape-Antique Allettamento** (page 36).
- Dehumidifying render **PoroMap Deumidificante** (page 22), **Mape-Antique NHL ECO Risana** (page 24) and **Mape-Antique Cycle** (page 26).
- Consolidators: compatible with all **Mapei** consolidators (page 9, 10 and 11).

## CONSUMPTION

According to the absorbency of the masonry. Typical consumption rate: 8-9 kg/m of mixture for 40 cm thick masonry, corresponding to 0.4-0.6 kg/m of neat product.

Masonry in cm	Consumption rate of mixture (*) (kg/m)	Consumption rate of Mapestop (kg/m)
20	4-4.5	0.2-0.6
30	6-6.75	0.3-0.45
40	8-9	0.4-0.6
50	10-11	0.5-0.75
60	12-13.5	0.6-0.9

(\*) 1 kg of **Mapestop** + 19 litres of water.







Madonna della Bruna Church  
Matera - Italy

## Solutions for rendering and rebuilding masonry and construction elements, including of historic interest

Whatever the need, **Mapei** has the answer, with a complete range of **NHL-based coloured, breathable renders and masonry mortars** compatible with all types of masonry. Available in a range of particle sizes and textures and with various performance properties, they are suitable for every type of rebuilding work, including pouring into formwork.

# MapeWall Muratura Grosso

## DESCRIPTION

**NHL-based masonry mortar with 3 mm particles**

Breathable, natural hydraulic lime-based masonry mortar with very low emission of VOC for general building work, "reinforced" masonry and patching and plumbing walls.

## TYPICAL AREAS OF USE

- Building new load-bearing masonry and buffer walls and rebuilding existing masonry, including of historic interest.
- Pointing "exposed-finish" stone, brick and tuff masonry.
- Making installation and "reinforced" joints using rebar or composite material (such as **Maferod**).
- Patching and plumbing facing walls with gaps and/or uneven surfaces.

## ADVANTAGES

- **NHL-based.**
- Suitable for all types of masonry.
- 3 mm particle size.
- **Highly breathable.**

## APPLICATION

- Trowel.
- Suitable for internal and external use.
- Minimum thickness 1 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Water-repellent treatment: **Antipluvial S** or **Antipluvial W**.

## CERTIFICATION AND MARKING



## CHARACTERISTICS



NHL BASED



HIGHLY BREATHABLE

## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
MapeWall  
Muratura Grosso



## PACKAGING

25 kg bag.

## CONSUMPTION

15 kg/m<sup>2</sup>  
(per cm of thickness).



# MapeWall Muratura Fine

## DESCRIPTION

**NHL-based coloured masonry mortar**

Breathable, natural hydraulic lime-based, high-performance masonry mortar with very low emission of VOC for general building work, "reinforced" masonry and patching and plumbing walls.

## TYPICAL AREAS OF USE

- Building new load-bearing masonry and buffer walls and rebuilding existing walls, including of historic interest.
- Pointing "exposed-finish" stone, brick and tuff masonry.
- Making installation and "reinforced" joints using rebar or composite material (such as **Maferod**).
- Building facing walls with high performance masonry mortar in compliance with standards applied in seismic-risk zones.
- Patching and plumbing facing walls with gaps and/or uneven surfaces.

## ADVANTAGES

- **NHL-based.**
- **Very high mechanical properties.**
- Suitable for all types of masonry.
- **Highly breathable.**

## COLOURS



## APPLICATION

- By trowel.
- Suitable for internal and external use.
- Minimum thickness 1 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Water-repellent treatment: **Antipluvial S** or **Antipluvial W**.

## CERTIFICATION AND MARKING



## CHARACTERISTICS



NHL BASED



HIGHLY BREATHABLE

## FOR ASSISTANCE OR INFORMATION

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
MapeWall  
Muratura Fine



## PACKAGING

25 kg bag.

## CONSUMPTION

16.5 kg/m<sup>2</sup>  
(per cm of thickness).



# Mape-Antique Allettamento

## DESCRIPTION

### Renovation and rebuilding work with cement-free, lime-based coloured mortar

Salt-resistant, natural hydraulic lime and Eco-Pozzolan-based **masonry mortar** for pointing and installing "exposed finish" masonry.

## TYPICAL AREAS OF USE

- Building new masonry and restoring existing masonry, including of historic and artistic interest and listed buildings.
- Pointing stone, brick and tuff "exposed-finish" masonry.
- Making installation and "reinforced" joints using rebar or composite material (such as **Maperod**).
- Building facing walls using masonry mortar with guaranteed performance properties.
- Patching and plumbing facing walls with gaps and/or uneven surfaces.

## ADVANTAGES

- **NHL-based.**
- **Cement-free.**
- Suitable for all types of masonry.
- **Resistant to salts.**
- Recommended for historic buildings and the green building sector.
- Contains **recycled materials**.

## COLOURS



## APPLICATION

- Trowel.
- Suitable for internal and external use.
- Minimum thickness 0.5 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Water-repellent treatment: **Antipluvial S** or **Antipluvial W**.

## CERTIFICATION AND MARKING



## CHARACTERISTICS



NHL BASED



HIGHLY BREATHABLE

## FOR ASSISTANCE OR INFORMATION

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique  
Allettamento



## PACKAGING

25 kg bag.

## CONSUMPTION

16.5 kg/m<sup>2</sup>  
(per cm of thickness).



# Mape-Antique Colabile

## DESCRIPTION

### Reconditioning and consolidating facing walls by casting plastic mortar

Salt-resistant, **free-flowing, natural hydraulic lime** and Eco-Pozzolan-based **masonry mortar** for reconditioning and consolidating masonry.

## TYPICAL AREAS OF USE

Making free-flowing, salt-resistant, volumetrically stable, plastic-consistency, high-strength masonry mortar. Used for filling large internal voids and cavities when reconditioning and consolidating structures such as:

- Foundations, pillars, vaulted roofs and archways;
- "Cement-core" walls;
- Stone, brick, tuff and mixed masonry in general on existing buildings, including of historic and artistic interest and listed buildings.

## ADVANTAGES

- **NHL-based.**
- **Cement-free.**
- **Very high mechanical properties.**
- Suitable for all types of masonry.
- Available in 7 colours.
- **Resistant to salts.**
- Contains **recycled materials**.

## APPLICATION

- Casting.
- Suitable for internal and external use.

## RELATED PRODUCTS AND APPLICATIONS

- Curing admixture: **Mapecure SRA**.
- Aggregates: **6-10 Gravel**.

## CHARACTERISTICS



NHL BASED



CEMENT FREE



RECYCLED MATERIAL



HIGHLY BREATHABLE

## CERTIFICATION AND MARKING



## FOR ASSISTANCE OR INFORMATION

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique  
Colabile



## PACKAGING

25 kg bag.

## CONSUMPTION

1.83 kg/dm<sup>3</sup>  
(of cavities to be filled).





# MapeWall Intonaco Base

## DESCRIPTION

### Breathable NHL-based render

Breathable, **natural hydraulic lime-based** render for external and internal use. Applied by trowel or with a rendering machine.

## TYPICAL AREAS OF USE

- New layers of internal and external breathable render for stone, brick, tuff and mixed masonry without capillary rising damp.
- Levelling off the extrados of vaulted roofs with an uneven surface.

## ADVANTAGES

- **NHL-based.**
- **High breathability** ( $\mu \leq 12$ ).
- For all types of masonry.

## APPLICATION

- Trowel or rendering machine.
- Suitable for internal and external use.
- Minimum thickness 1 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Scratch-coat mortar: **PoroMap Rinzafo Plus** (page 60) for application on smooth and weak substrates.
- Skimming mortars: **Mape-Antique NHL ECO Rasante** range (page 48 and 49), **Mape-Antique FC** (page 50, 51 and 52) or the **Planitop** range.

## CHARACTERISTICS



NHL  
BASED



HIGHLY  
BREATHABLE

## CERTIFICATION AND MARKING



## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet MapeWall  
Intonaco Base



## PACKAGING

25 kg bag.

## CONSUMPTION

15 kg/m<sup>2</sup>  
(per cm of thickness).



# Mape-Antique Intonaco NHL

## DESCRIPTION

### Rendering the old-fashioned way

Breathable, **cement-free, pure natural hydraulic lime** and Eco-Pozzolan-based base render for application on existing masonry work, including historic buildings.

## TYPICAL AREAS OF USE

- New breathable render applied by trowel or with a rendering machine on stone, brick, tuff and mixed masonry without rising damp.
- New render or refurbishing old lime-based and/or weak render on stone, brick, tuff and mixed masonry, including of historic and artistic interest and listed buildings.
- Patching and plumbing facing walls with gaps and/or uneven surfaces.
- Pointing "exposed-finish" stone, brick and tuff masonry.

## ADVANTAGES

- **NHL-based.**
- **Cement-free.**
- **High breathability** ( $\mu \leq 12$ ).
- For all types of masonry.
- Recommended for historic buildings and the green building sector.
- Contains **recycled materials**.

## APPLICATION

- Trowel
- Rendering machine.
- Suitable for internal and external use.
- Minimum thickness 1 cm.

## RELATED PRODUCTS AND APPLICATIONS

- Scratch-coat mortar: **Mape-Antique NHL ECO Rinzafo** (page 61) for application on smooth or weak substrates.
- Skimming mortars: **Mape-Antique NHL ECO Rasante** range (page 48 and 49) or **Mape-Antique FC** (page 50, 51 and 52).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor**.

## CHARACTERISTICS



NHL  
BASED



CEMENT  
FREE



RECYCLED  
MATERIAL



HIGHLY  
BREATHABLE

## CERTIFICATION AND MARKING



## FOR ASSISTANCE OR INFORMATION

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique  
Intonaco NHL



## PACKAGING

25 kg bag.

## CONSUMPTION

14.5 kg/m<sup>2</sup>  
(per cm of thickness).



# Mape-Antique NHL ECO Restaura

## DESCRIPTION

Suitable for all restoration and refurbishment work

Multi-purpose, breathable, cement-free, pure natural hydraulic lime-based mortar, applied in layers 3 to 30 mm thick, for restoring and levelling substrates, render and coatings.

## TYPICAL AREAS OF USE

- **Breathable levelling layers and skim coats** on particularly strong lime or lime/cement render before painting.
- **Smoothing** the surface of walls, **including walls painted** with washable acrylic or quartz-based paint, plastic coatings, etc. if sound, clean and well-anchored to the substrate.
- **Refurbishing** existing render or applying new render on masonry without rising damp.
- **Rebuilding and restoring construction features and elements** (friezes, column capitals, stringcourses, gables, etc.).
- **Pointing** "exposed-finish" stone, brick and tuff masonry.
- **Patching and plumbing** facing walls with gaps and/or uneven surfaces.

## ADVANTAGES

- **NHL-based.**
- **Cement-free.**
- **High breathability** ( $\mu \leq 12$ ).
- For all types of masonry.
- **Multi-purpose mortar** (masonry, rendering and skimming mortar).
- Recommended for historic buildings and the green building sector.
- Contains **recycled materials**.

## APPLICATION

- Trowel or rendering machine.
- Suitable for internal and external use.
- Minimum thickness 3 mm.

## RELATED PRODUCTS AND APPLICATIONS

- Primers and consolidators: **Consolidante ETS**, **Consolidante ETS WR** (page 10) or **Consolidante 8020** (page 9) **Primer 3296** (page 8) for application on smooth or weak substrates.
- Strengthening mesh: **Mapenet 150**.
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** ranges.

## DO YOU NEED ASSISTANCE OR WOULD YOU LIKE TO KNOW MORE?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it) or visit our website [www.mapei.it](http://www.mapei.it)



Data Sheet  
Mape-Antique NHL ECO Restaura



## PACKAGING

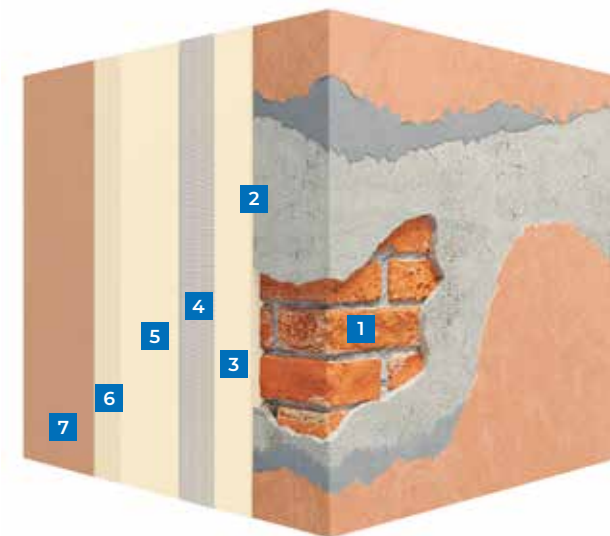
25 kg bag.

## CONSUMPTION

14.5 kg/m<sup>2</sup>  
(per cm of thickness).

## Plaster and skimming plaster for levelling and restoring walls, even with old paintwork

- 1 Brick support
- 2 **Mape-Antique NHL ECO Restaura** on paint, smoothing compound and existing render
- 3 **Mape-Antique NHL ECO Restaura** in 30 mm of thickness of existing render
- 4 Glass fibre mesh **Mapenet 150**
- 5 Second coat of **Mape-Antique NHL ECO Restaura** in minimum thickness of 3 mm
- 6 **Silexcolor Primer**
- 7 **Silexcolor Pittura**



## CHARACTERISTICS



NHL  
BASED



CEMENT  
FREE



RECYCLED  
MATERIAL



HIGHLY  
BREATHABLE

## CERTIFICATION AND MARKING





# Mape-Antique NHL ECO Restaura



## From problems...

- 1 Partially rendered brick, tuff, stone and mixed masonry with damaged/deteriorated joints.
- 2 Patchy areas of old lime-based or lime and cement-based render on a substrate, including of historical and artistic interest.
- 3 Patchy areas of an old lime-based or lime and cement-based skim coat on a substrate, including of historical and artistic interest.
- 4 Painted and partially painted substrates.
- 5 Damaged/deteriorated decorative and overhanging elements requiring partial or complete restoration.



Refurbishing existing render.



Application with a rendering machine on a non-uniform substrate.



## ... to solutions: Mape-Antique NHL ECO Restaura

- 1 **Render** made from **Mape-Antique NHL ECO Restaura** applied in layers up to 30 mm thick.
- 2 **Skim coat** of **Mape-Antique NHL ECO Restaura** at least 3 mm thick over old render and paintwork.
- 3 **Repointing** mortar joints with **Mape-Antique NHL ECO Restaura**; may also be integrated with helical bar such as **Mapei Steel Bar**.
- 4 **Rebuilding** construction and decorative features.
- 5 **Silexcolor Primer** or **Silancolor Primer**.
- 6 **Silexcolor Paint** or **Silancolor Paint**.



Levelling off an existing skim coat.



Rebuilding portions of masonry.



Building in Via Vespasiano  
Rome – Italy

## Rebuilding, rendering and skimming solutions

All the information you need on **Mapei finishes** for dehumidifying, structural and breathable render, with lime-based skimming mortars in various particle sizes, and for use in combination with various types of strengthening mesh.

# PoroMap Finitura Civile

### DESCRIPTION

**Breathable, natural-finish, lime-based skimming mortar for dehumidifying render**

Breathable, lime-based, fine-textured (0.4 mm) **skimming mortar** for a **natural finish** on dehumidifying render.

### TYPICAL AREAS OF USE

- Natural finish for internal/external macro-porous, coarse-textured, dehumidifying and insulating render when renovating masonry damaged by capillary rising damp and soluble salts.
- Natural finish for coarse-textured dehumidifying render for masonry in lagoon areas or close to the sea.
- Natural finish for new dehumidifying render or existing lime-based render on stone, brick, tuff and mixed masonry.
- Natural finish for breathable, coarse-textured, lime-based base render.

### ADVANTAGES

- **High breathability** ( $\mu \leq 15$ ).
- White coloured mortar.
- **Good adhesion**.

### APPLICATION

- Flat metal trowel.
- Minimum thickness 2 mm.

### RELATED PRODUCTS AND APPLICATIONS

- Dehumidifying render: **PoroMap Deumidificante** (page 22).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor**.
- Strengthening mesh: **Mapenet 150**.

### CERTIFICATION AND MARKING



### CHARACTERISTICS



LIME-BASED



HIGHLY BREATHABLE

### DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
PoroMap  
Finitura Civile



### PACKAGING

25 kg bag.

### CONSUMPTION

1.3 kg/m<sup>2</sup>  
(per mm of thickness).



# PoroMap Finitura Granello

### DESCRIPTION

**Breathable, coarse-textured, lime-based skimming mortar for dehumidifying render**

Breathable, coarse-textured (1 mm particles), **lime-based skimming mortar** for a textured finish on dehumidifying render.

### TYPICAL AREAS OF USE

- Coarse-textured finish for internal/external, macro-porous and insulating textured render when renovating masonry deteriorated by capillary rising damp and soluble salts.
- Coarse-textured finish for coarser-textured dehumidifying render on masonry in lagoon areas or close to the sea.
- Coarse-textured finish for new dehumidifying render or existing lime-based render on stone, brick, tuff and mixed masonry.

### ADVANTAGES

- **High breathability** ( $\mu \leq 15$ ).
- White coloured mortar.
- **Good adhesion**.

### APPLICATION

- Flat metal trowel.
- Minimum thickness 3 mm.

### RELATED PRODUCTS AND APPLICATIONS

- Dehumidifying render: **PoroMap Deumidificante** (page 22).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor**.
- Strengthening mesh: **Mapenet 150**.

### CERTIFICATION AND MARKING



### CHARACTERISTICS



LIME-BASED



HIGHLY BREATHABLE

### DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
PoroMap  
Finitura Granello



### PACKAGING

25 kg bag.

### CONSUMPTION

1.3 kg/m<sup>2</sup>  
(per mm of thickness).



# Mape-Antique NHL ECO Rasante Civile

## DESCRIPTION

Breathable, fine-textured, cement-free, NHL-based skimming mortar for the green building sector

Breathable, pure natural hydraulic lime-based skimming mortar for a natural finish (0.4 mm) on render.

## TYPICAL AREAS OF USE

- Natural finish for internal/external coarse-textured macro-porous dehumidifying render.
- Natural finish for new render or existing lime-based render on stone, brick, tuff and mixed masonry, including of historic and artistic interest and listed buildings.
- Natural finish for coarse-textured breathable and "structural" lime-based base render.

## ADVANTAGES

- **High breathability** ( $\mu \leq 12$ ).
- Hazelnut coloured mortar.
- Recommended for historic buildings and the green building sector.
- **Good adhesion.**

## APPLICATION

- Flat metal trowel.
- Maximum thickness per layer 2 mm.

## RELATED PRODUCTS AND APPLICATIONS

- Dehumidifying render: **Mape-Antique NHL ECO Risana** (page 24).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** ranges.
- Strengthening mesh: **Mapenet 150**.

## CERTIFICATION AND MARKING



## CHARACTERISTICS



NHL BASED



CEMENT FREE



HIGHLY BREATHABLE

## DO YOU NEED ASSISTANCE OR WOULD YOU LIKE TO KNOW MORE?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it) or visit our website [www.mapei.it](http://www.mapei.it)



Data Sheet  
Mape-Antique NHL ECO Rasante Civile



**PACKAGING**  
25 kg bag.

**CONSUMPTION**  
1.4 kg/m<sup>2</sup>  
(per mm of thickness).



# Mape-Antique NHL ECO Rasante Grosso

## DESCRIPTION

Breathable, cement-free, NHL-based skimming mortar for the green building sector

Breathable, coarse-textured, pure natural hydraulic lime-based skimming mortar for a natural finish (0.7 mm) on render.

## TYPICAL AREAS OF USE

- Textured natural finish for internal/external macro-porous, de-humidifying render with a coarser-textured finish.
- Textured natural finish for new render or old lime-based render on stone, brick, tuff and mixed masonry, including of historic and artistic interest and listed buildings.
- Textured natural finish for breathable and "structural" lime base render.

## ADVANTAGES

- **High breathability** ( $\mu \leq 12$ ).
- Hazelnut coloured mortar.
- Recommended for historic buildings and the green building sector.
- **Good adhesion.**

## APPLICATION

- Flat metal trowel.
- Minimum thickness 3 mm.

## RELATED PRODUCTS AND APPLICATIONS

- Dehumidifying render: **Mape-Antique NHL ECO Risana** (page 24).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** ranges.
- Strengthening mesh: **Mapenet 150**.

## CERTIFICATION AND MARKING



## CHARACTERISTICS



NHL BASED



CEMENT FREE



HIGHLY BREATHABLE

## DO YOU NEED ASSISTANCE OR WOULD YOU LIKE TO KNOW MORE?

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Data Sheet  
Mape-Antique NHL ECO Rasante Grosso



**PACKAGING**  
25 kg bag.

**CONSUMPTION**  
1.4 kg/m<sup>2</sup>  
(per mm of thickness).





# Mape-Antique FC Ultrafine

**DESCRIPTION** Ultrafine-textured, cement-free, lime-based skimming mortar

Breathable, salt-resistant, lime and Eco-Pozzolan-based **skimming mortar** for a smooth finish on render.

- TYPICAL AREAS OF USE**
- Smooth finish for internal/external coarse-textured, de-humidifying, macro-porous render when restoring masonry deteriorated by capillary rising damp and soluble salts.
  - Smooth finish for coarse-textured dehumidifying render on masonry in lagoon areas or close to the sea.
  - Smooth finish for new de-humidifying render or existing lime-based render on stone, brick, tuff and mixed masonry, including of historic and artistic interest and listed buildings.
  - Smooth finish for coarse-textured, breathable or "structural" base render.

- ADVANTAGES**
- White coloured mortar.
  - **Resistant to salts.**
  - **Good breathability** ( $\mu \leq 20$ ).
  - **Excellent adhesion.**
  - Contains **recycled materials**.

- APPLICATION**
- Flat metal trowel.
  - Maximum thickness per layer 1 mm.

- RELATED PRODUCTS AND APPLICATIONS**
- Dehumidifying cycle: traditional **Mape-Antique Cycle** (page 26).
  - Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** ranges.

## CHARACTERISTICS



LIME-BASED



CEMENT FREE



RECYCLED MATERIAL



HIGHLY BREATHABLE

## CERTIFICATION AND MARKING



## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique FC  
Ultrafine



**PACKAGING**  
25 kg bag.

**CONSUMPTION**  
1.4 kg/m<sup>2</sup>  
(per mm of thickness).



# Mape-Antique FC Civile

**DESCRIPTION** Breathable, cement-free, NHL-based skimming mortar for the green building sector

Breathable, salt-resistant, lime and Eco-Pozzolan-based **skimming mortar** for a smooth finish on render.

- TYPICAL AREAS OF USE**
- Natural finish for internal/external coarse-textured, de-humidifying, macro-porous render when restoring masonry deteriorated by capillary rising damp and soluble salts.
  - Natural finish for coarse-textured dehumidifying render on masonry in lagoon areas or close to the sea.
  - Smooth finish for new de-humidifying render or existing lime-based render on stone, brick, tuff and mixed masonry, including of historic and artistic interest and listed buildings.
  - Natural finish for coarse-textured breathable and "structural" lime-based base render.

- ADVANTAGES**
- White or hazelnut coloured mortar.
  - **Resistant to salts.**
  - **Good breathability** ( $\mu \leq 15$ ).
  - **Excellent adhesion.**
  - Contains **recycled materials**.

- APPLICATION**
- Flat metal trowel.
  - Maximum thickness per layer 2 mm.

- RELATED PRODUCTS AND APPLICATIONS**
- Dehumidifying cycle: traditional **Mape-Antique Cycle** (page 26).
  - Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** ranges.
  - Strengthening mesh: **Mapenet 150**.

## CHARACTERISTICS



LIME-BASED



CEMENT FREE



RECYCLED MATERIAL



HIGHLY BREATHABLE

## CERTIFICATION AND MARKING



## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique FC  
Civile



**PACKAGING**  
25 kg bag.

**CONSUMPTION**  
1.4 kg/m<sup>2</sup>  
(per mm of thickness).



# Mape-Antique FC Grosso

## DESCRIPTION

**Coarse-textured, cement-free, lime-based skimming mortar**

**Breathable**, salt-resistant, lime and Eco-Pozzolan-based **skimming mortar** for a smooth finish on render.

## TYPICAL AREAS OF USE

- Coarse-textured finish for internal/external macro-porous, de-humidifying render when restoring masonry deteriorated by capillary rising damp and soluble salts.
- Coarse-textured finish for dehumidifying render on masonry in lagoon areas or close to the sea.
- Coarse-textured finish for new de-humidifying render or existing lime-based render on stone, brick, tuff and mixed masonry, including of historic and artistic interest and listed buildings.
- Coarse-textured finish for breathable or "structural" base render.

## ADVANTAGES

- White or hazelnut coloured mortar.
- **Resistant to salts.**
- **Good breathability** ( $\mu \leq 20$ ).
- **Excellent adhesion.**
- Contains **recycled materials**.

## APPLICATION

- Flat metal trowel.
- Maximum thickness per layer 3 mm.

## RELATED PRODUCTS AND APPLICATIONS

- Dehumidifying cycle: traditional **Mape-Antique Cycle** (page 26).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** ranges.

## CHARACTERISTICS



LIME-BASED



CEMENT FREE



RECYCLED MATERIAL



HIGHLY BREATHABLE

## CERTIFICATION AND MARKING



## DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique FC  
Grosso



## PACKAGING

25 kg bag.

## CONSUMPTION

1.4 kg/m<sup>2</sup>  
(per mm of thickness).

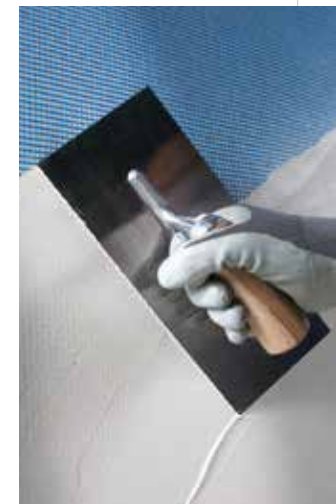


# Mapenet 150

## DESCRIPTION

### Forming "reinforced" skim coats

When applying one of the **Mapei** skimming mortars mentioned on the previous pages in thick layers on **reinforced render**, on **render applied** on mixed, weak substrates or on existing lime or lime/cement-based render, it is recommended to apply two layers of the relative skimming mortar. Also, it is recommended to embed 4 x 4.5 mm **Mapenet 150** alkali-resistant glass fibre mesh between the two layers, in compliance with **ETAG 004** guidelines. The **existing render** over which the new skim coat is to be applied must be porous, sound and clean and wetted sufficiently just before applying the skim coat. This operation will help prevent the substrate drawing off water from the mortar. It is also recommended to apply **Primer 3296** diluted 1:1 with water on the substrate with a brush, roller or by spray to improve adhesion between the skimming mortar and the substrate.



## APPLICATION

The **Mapenet 150** mesh must be completely embedded between the layers of product it needs to strengthen.

How to use the mesh:

- Apply an even layer of skimming mortar.
- While the mortar is still fresh, lay the **Mapenet 150** mesh on the surface and press down gently with a trowel to embed it in the skimming mortar.
- After waiting the specified drying time, if required, apply a second layer of skimming mortar.

Adjacent pieces of **Mapenet 150** must overlap along the edges by at least 5 cm.

**Mapenet 150** may be used with all the skimming mortars mentioned on the previous pages, apart from **Antique FC Ultrafine**.

## PACKAGING

50 m x 1 m roll.

Colour: blue.

Mesh size: 4 x 4.5 mm.



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Data Sheet  
Mapenet 150

Santa Maria delle Stelle Church  
Ragusa - Italy



## Waterproofing and protecting with lime

The long-term, effective solution from **Mapei** for protecting and waterproofing construction elements and the structure of buildings of historic and artistic interest. **Mape-Antique Ecolastic**: lime-based waterproofer.

WATERPROOFING AND PROTECTING  
HISTORIC BUILDINGS



# Mape-Antique Ecolastic

## DESCRIPTION

### Waterproofing and protecting with lime

Two-component, salt-resistant, cement-free, lime and Eco-Pozzolan-based **elastic coating** for **waterproofing and protecting** construction elements, including of historic and artistic interest.

## TYPICAL AREAS OF USE

- Waterproofing and protecting irregular shaped surfaces, brick vaulted roofs, screeds, roofs, storage tanks, fountains and features such as cornices, stringcourses, small columns, etc. on existing structures, including of historic and artistic interest and listed buildings.
- Waterproofing and protecting masonry structures below ground level subjected to positive or negative hydraulic lift, including of historic or artistic interest.
- Protecting the surface of rendered masonry exposed to atmospheric agents.
- Protecting the surface of rendered masonry at risk of coming into contact with seawater, de-icing salts and soluble salts in general.
- Elastic protective coating for new and repaired rendered masonry structures with small cracks caused by deformations, temperature variations or stress loads.

## ADVANTAGES

- Light hazelnut coloured coating.
- Paintable or pigmentable.
- **Resistant to salts and UV rays.**
- **Resistant to positive and negative hydraulic lift.**
- **Excellent adhesion.**
- Contains **recycled materials**.

## APPLICATION

- Brush.
- Roller.
- Spray.
- Application thickness: 2 mm per layer.

## RELATED PRODUCTS AND APPLICATIONS

- Building mortar: **Mape-Antique Strutturale NHL** (page 16).
- Primer: **Consolidante ETS** or **Primer 3296**.
- Coloured and pigmented finish: **Elastocolor Paint** and **Mapecolor Pigment**.
- Strengthening mesh: **Mapenet 150**.

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Data Sheet  
Mape-Antique Ecolastic



## PACKAGING

**10 kg bag**  
(component A)  
**+ 5 kg can**  
(component B).

## CONSUMPTION

1.65 kg/m<sup>2</sup>  
(per mm of thickness).



## Waterproofing and protecting with lime

- 1** Protecting overhanging construction features.
- 2** Protecting cornices
- 3** Waterproofing a historic fountain
- 4** Waterproofing a roof

## CHARACTERISTICS



LIME-BASED



CEMENT  
FREE



RECYCLED  
MATERIAL



RESISTANT  
TO UV RAYS




POSITIVE  
HYDRAULIC  
THRUST



NEGATIVE  
HYDRAULIC  
THRUST

## CERTIFICATION AND MARKING



A photograph of the Palazzo dei Normanni in Palermo, Italy. The building is a multi-story structure with a mix of white stucco and yellow stone masonry. It features numerous arched windows, some with dark shutters and small balconies. A decorative cornice runs along the top of the white section. A black downspout is visible on the left side of the building. A street lamp is visible in the foreground on the right.

Palazzo dei Normanni  
Palermo - Italy

## A complete range

**Mapei** has a series of products available, such as **scratch-coat mortars** and **binders**, that complete the comprehensive range of proposed solutions for masonry buildings, as well as specific systems for basements and masonry below ground level, including of historic and artistic interest.

# 

### DESCRIPTION

#### Breathable salt-resistant scratch-coat mortar

Breathable, salt-resistant scratch-coat mortar, containing Pozzolan-reaction hydraulic binders, applied as a base layer to **improve adhesion and even out the absorption** of substrates.

### TYPICAL AREAS OF USE

Used as a base layer for the following applications:

- **Anti-condensation cycle** for facing walls and for the masonry of basements and rooms below ground level;
- Breathable and "structural" render for **particularly difficult masonry**, such as in stone or mixed material, or on very porous or weak masonry;
- Internal/external **dehumidifying** and insulating **render** for stone, brick, tuff and mixed masonry, including of recent construction, where the substrate is at an advanced state of deterioration.

### ADVANTAGES

- Breathable.
- **Resistant to salts.**
- **Excellent adhesion.**
- For all types of masonry substrates.

### APPLICATION

- Trowel
- Rendering machine.
- Application thickness: 5 mm per layer.

### RELATED PRODUCTS AND APPLICATIONS

- Dehumidifying render: **PoroMap Deumidificante** (page 22).

### CHARACTERISTICS



LIME-BASED

### CERTIFICATION AND MARKING



AI CLASS

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Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
PoroMap Rinzafo Plus



### PACKAGING

25 kg bag.

### CONSUMPTION

7.5 kg/m<sup>2</sup>  
(per 5 mm of thickness).



# 

### DESCRIPTION

#### Cement-free, NHL-based scratch-coat mortar for the green building sector

Breathable, pure natural hydraulic lime and Eco-Pozzolan-based **scratch-coat mortar** used as a base layer before applying **de-humidifying, breathable** and "structural" render.

### TYPICAL AREAS OF USE

Used as a base layer for the following applications:

- **Anti-condensation cycle** for facing walls and for the masonry of basements and rooms below ground level.
- Internal/external **macro-porous dehumidifying render** for existing masonry with rising damp.
- **Dehumidifying render** and restoring existing lime and natural hydraulic lime-based render on stone, brick, tuff and mixed masonry, including of historic and artistic interest and listed buildings.
- **Breathable** and "structural" render for **particularly difficult masonry**, such as in stone or mixed material, or on masonry which is porous or weak.

### ADVANTAGES

- NHL-based, cement-free product.
- Breathable.
- **Excellent adhesion.**
- For all types of masonry substrates.
- Recommended for **historic buildings** and the **green building sector**.
- Contains **recycled materials**.

### APPLICATION

- Trowel
- Rendering machine.
- Application thickness: 5 mm per layer.

### RELATED PRODUCTS AND APPLICATIONS

- Dehumidifying render: **Mape-Antique NHL ECO Risana** (page 24).

### CHARACTERISTICS



NHL  
BASED



CEMENT  
FREE



RECYCLED  
MATERIAL



HIGHLY  
BREATHABLE

### CERTIFICATION AND MARKING



AI CLASS

### DO YOU NEED ASSISTANCE OR FURTHER INFORMATION?

Write to us at [restoration@mapei.it](mailto:restoration@mapei.it)



Data Sheet  
Mape-Antique NHL  
ECO Rinzafo



### PACKAGING

25 kg bag.

### CONSUMPTION

7.5 kg/m<sup>2</sup>  
(per mm of thickness).





# Mape-Antique LC

## DESCRIPTION

### Lime-based binder, cement-free

**Salt-resistant**, lime and **Eco-Pozzolan-based hydraulic binder**. Mixed with various grades of aggregates to **make dehumidifying render and masonry mortar**.

## TYPICAL AREAS OF USE

- Mortar for **macro-porous de-humidifying render** for restoring masonry of existing buildings deteriorated by capillary rising damp and soluble salts, including of historic and artistic interest and listed buildings.
- **New de-humidifying render or reconstructing existing** lime-based render on stone, brick, tuff and mixed masonry.
- **Masonry mortar** for building and/or reconstructing stone, brick, tuff and mixed facing walls.
- **Masonry mortar** for pointing "exposed finish" stone, brick, tuff and mixed masonry on facing walls.
- **Masonry mortar** for patching and plumbing facing walls with gaps and/or uneven surfaces.

## ADVANTAGES

- **Cement-free.**
- For all types of masonry substrates.
- Recommended for **historic buildings** and the **green building sector**.
- Contains **recycled materials**.

## APPLICATION

- Trowel

## RELATED PRODUCTS AND APPLICATIONS

- Scratch-coat mortar: **Mape-Antique Rinzafo** (page 26) for application on smooth, weak substrates.
- Skimming mortar: **Mape-Antique NHL ECO Rasante** ranges (page 48 and 49) or **Mape-Antique FC** (page 50, 51 and 52).
- Coloured finishes: **Silancolor**, **Silancolor Plus** and **Silexcolor** ranges.

## DO YOU NEED ASSISTANCE OR WOULD YOU LIKE TO KNOW MORE?

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Data Sheet  
Mape-Antique LC



## PACKAGING

20 kg bag.

## CONSUMPTION

Per cm of thickness:

- approx. 5.0 kg/m<sup>2</sup> with 0.5-2.5 mm fine sand.
- approx. 4.5 kg/m<sup>2</sup> with 0.5-5 mm coarse sand.
- approx. 4.0 kg/m<sup>2</sup> with 0-8 mm gravel



1 Pointing work at the Navigli canals, Milan

2 Mape-Antique LC applied as render.



## MIXING RATIO 1:

**Mape-Antique LC** 500 kg/m<sup>3</sup>  
sand (0.5-2.5) 1,000 kg/m<sup>3</sup>  
water 225 l/m<sup>3</sup>

## MIXING RATIO 2:

**Mape-Antique LC** 450 kg/m<sup>3</sup>  
sand (0.5-2.5) 1,150 kg/m<sup>3</sup>  
water 210 l/m<sup>3</sup>

## MIXING RATIO 3:

**Mape-Antique LC** 400 kg/m<sup>3</sup>  
sand (0.5-2.5) 1,300 kg/m<sup>3</sup>  
water 200 l/m<sup>3</sup>

## CHARACTERISTICS



CEMENT  
FREE



RECYCLED  
MATERIAL



## INTRODUCTION

The problem of damp basement walls, and damp masonry below ground level in general, can be approached by employing **systems that repel water** or by applying an **external waterproofing system** to the structure to eliminate the risk of water coming into contact with masonry below ground level. In certain cases, however, these solutions are not always feasible, and the problem has to be dealt with by applying an anti-condensation system. This type of system is applied on the internal faces of the walls and masonry of rooms and areas below ground level and consists of a **counterthrust waterproofing system** integrated with an anti-condensation system to overcome the problem of surface condensation. The **anti-condensation system** may be either **cementitious-based** or, for historic and listed buildings, there is a cement-free **lime-based** version available.

## Cementitious anti-condensation system

### DESCRIPTION

The cementitious version of the anti-condensation system consists of three layers.

- First layer: **levelling layer** of two-component cementitious mortar.
- Second layer: **waterproof coating** resistant to negative hydraulic lift.
- Third layer: system consisting of a layer of scratch-coat mortar to improve adhesion, macro-porous render to absorb surface condensation and a skim-coat with a coloured siloxane-based finish.



- 1 Masonry
- 2 Mapewall Render & Strengthen
- 3 Primer 3296 diluted 1:1 with water

- 4 Mapelastic Foundation
- 5 PoroMap Rinzafo Plus
- 6 PoroMap Deumidificante (min 1 cm)

- 7 PoroMap Finitura Civile
- 8 Silancolor Primer
- 9 Silancolor Paint

## Cement-free, lime-based anti-condensation system

### DESCRIPTION

The lime-based version of the anti-condensation system consists of three layers.

- First layer: **levelling layer** of two-component, cement-free, lime-based mortar.
- Second layer: cement-free, lime-based **waterproof coating** resistant to negative hydraulic lift.
- Third layer: system consisting of a layer of scratch-coat mortar, **macro-porous render** and a cement-free, NHL-based skim-coat to absorb surface condensation.

The system can then be finished off with a coat of coloured silicate-based paint.

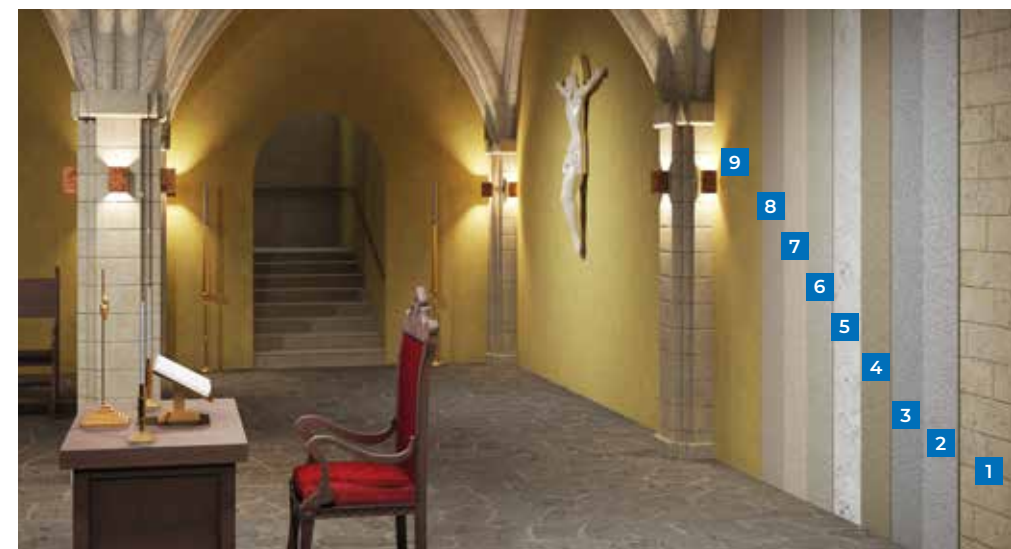
### CHARACTERISTICS



CEMENT FREE



RECYCLED MATERIAL



- 1 Masonry
- 2 Mape-Antique Strutturale NHL
- 3 Primer 3296 diluted 1:1 with water

- 4 Mape-Antique Ecolastic
- 5 Mape-Antique NHL ECO Rinzafo
- 6 Mape-Antique NHL ECO Risana (min 1 cm)

- 7 Mape-Antique NHL ECO Rasante Civile
- 8 Silancolor Primer
- 9 Silancolor Paint

# Mapei answers your queries

## SUBSTRATE PREPARATION

### • What operations do I have to carry out before applying new render?

Remove all the damaged and deteriorated render with manual or power tools (for dehumidifying systems, remove the render to a height of around 50 cm above the damaged and deteriorated area) to expose the masonry; the masonry must be sound and compact and have no detached areas.

Thoroughly wash the masonry repeatedly with potable water at low pressure to remove any soluble salts, dust, grease, efflorescence and any other loose material that could compromise adhesion of the products mentioned below. We suggest repeating this operation several times in order to considerably reduce the concentration of soluble salts in the masonry.

Any gaps or voids in the masonry (brickwork, stone or mixed masonry) should be repaired using the “plugging” or “stitching” technique.

### • What should I do before applying “reinforced” render?

If the final thickness of the render is 3 cm, proceed as described above and apply the “reinforced” render according to the instructions on the data sheet. If the thickness of the render is equal to or more than 4 cm, apply a first layer of product and press it down firmly onto the substrate prepared as specified (a notched trowel may be used for this operation) to create an adequate keying surface, then wait at least 24 hours before applying the “reinforced” render.

### • What operations do I need to carry out with exposed masonry?

Remove all weak material and any material at risk of becoming detached and thoroughly wash the masonry repeatedly with potable water at low pressure.

### • Before applying a consolidator, primer or water-repellent treatment, what should be done?

Clean the masonry, remove all weak material and any material at risk of becoming detached and, after reconstructing the substrate where required, apply the consolidator, primer or water-repellent treatment on the surface once it is completely dry.

### • Which primer should I use before applying Mape-Antique Ecolastic?

Clean the surfaces to be protected or waterproofed, remove any weak material or material at risk of becoming detached and, after reconstructing the substrate where required, apply **Primer 3296** diluted 1:1 with water or **Consolidante ETS**; surfaces must be completely dry before applying a protective treatment or **Mape-Antique Ecolastic**.

*NB. Before applying rendering or masonry mortar, saturate the substrate with water to prevent the substrate drawing off water from the mortar; this could affect the final performance characteristics of the mortar. All excess water should be eliminated so that the masonry is saturated but its surface is dry (s.s.d. condition). Substrates should not be saturated with water, but it is recommended to moisten them with water so that the mortar bonds correctly.*

## CHEMICAL BARRIERS

### • Where should a chemical barrier be applied?

A chemical barrier should always be applied above ground level.

### • Do you always need to create a chemical barrier when applying dehumidifying render?

No, it's not obligatory, but it is highly recommended in order to increase the durability of the dehumidifying system.

### • When is it recommended to create a chemical barrier?

A chemical barrier, combined with dehumidifying render, is recommended when there is a high level of moisture in the masonry. Also, we suggest adopting this approach when there

is rising damp in masonry on which a strengthening layer (such as “reinforced” render) needs to be applied, if external thermal insulation is to be installed or to dehumidify exposed-finish masonry.

### • I need to apply “reinforced” render or external thermal insulation and there is rising damp: what should I do in such cases?

The first step is to create a chemical barrier in the masonry and then, if possible, apply dehumidifying render on the internal walls. The external thermal insulation can then be installed externally, leaving a gap at the base.

### • When creating a chemical barrier, should the existing render be removed before or after injecting the product?

When creating a chemical barrier using **Mapestop Cream**, the damaged and deteriorated render may be removed before injecting the product; this will help expel the moisture in the masonry.

If a horizontal barrier is created using **Mapestop** (liquid version mixed with water), we recommend removing the render after creating the chemical barrier so that the render itself holds the mix within the masonry; the render can then be removed after waiting 1-2 hours.

### • If the masonry has gaps or voids, or if it is a “cement-core wall” or made from perforated bricks, can I create a chemical barrier?

On disjointed and/or uneven “cement-core walls”, or with walls that have large voids, all internal cavities should be filled by injecting super-fluid, cement-free, lime-based slurry (**Mape-Antique lime**) or lime and cement-based slurry (**Mapewall Inject & Consolidate**).

## RENDER AND SKIMMING MORTAR

### • When is it necessary to apply a scratch-coat before rendering?

A scratch-coat needs to be applied if the substrate is weak or particularly smooth (concrete), or when applying an anti-condensation system on a waterproofing system against water in counterthrust.

### • After applying a scratch-coat, how long should you wait before rendering?

You only need to wait until the scratch-coat has started to set. In certain cases, you can start rendering after just a few hours. If the scratch-coat has completely set, it is recommended to moisten it shortly before applying the render.

### • How long should you wait for render to cure correctly (breathable, dehumidifying and fibre-reinforced render) before applying a skim coat or coloured finish?

Wait at least 7 days per centimetre of thickness of render applied.

### • When creating “reinforced” render, where should the mesh be positioned?

The mesh should be positioned at the mid-point of the render: that is, at a certain distance from the substrate and embedded between the two layers of render, which must be applied wet-on-wet.

### • Can you apply a skim coat on existing render?

It is possible to apply a skimming product from the **Mape-Antique FC** or **Mape-Antique NHL ECO Rasante** ranges or **PoroMap Finitura** on existing render if there is no old paint present; if necessary, prime the substrate beforehand with **Primer 3296** diluted 1:1.

**Mape-Antique NHL ECO Restaura** may also be applied on existing substrates, including in the presence of old paint. Render, skim coats and paint must be sound with no areas at risk of detachment.



# Mapei answers your queries

- **What are the possible solutions in rooms below ground level with a problem of damp?**

Mapei solves the problem of damp in retaining walls by applying an anti-condensation system.

## PROTECTION AND COLOURED FINISHES

- **What type of coloured finish may be applied on dehumidifying render?**

We recommend coloured finishes from the **Silexcolor**, **Silancolor** or **Silancolor Plus** ranges, which guarantee excellent breathability for the masonry.

- **Can I colour or paint Mape-Antique Ecolastic?**

The colour of **Mape-Antique Ecolastic** may be modified by adding a small amount of inorganic pigments when mixing the two components together (natural substances such as iron oxide or mixed substances), or with **Mapecolor Pigment**; if you decide to apply a coloured finish, a product from the **Elastocolor** line may be used.

- **Can I leave Mape-Antique Ecolastic with an exposed finish?**

**Mape-Antique Ecolastic** may be left exposed.

- **Is mesh required when applying Mape-Antique Ecolastic?**

It is not obligatory to use mesh. If necessary, “strengthening” mesh, such as **Mapenet 150**, may be embedded in the product during application

## CERAMIC AND STONE DRESSING

- **Can I apply stone and ceramic dressing on a dehumidifying system?**

It is not possible to apply ceramic dressing on a dehumidifying system because it would stop any moisture in the render from being released. If you do have to apply dressing on the render, a chemical barrier and dehumidifying render must be applied beforehand at the top part of the dressing.

- **On what type of render may you apply ceramic or stone dressing?**

**Mapewall Render & Strengthen** has excellent performance characteristics and has been developed for use as a base render, either with or without mesh, before applying dressing materials.

## DESIGN SUPPORT

Do you need design support, or technical specifications or a cost analysis for our systems? Write to [restoration@mapei.it](mailto:restoration@mapei.it) or consult the website [www.mapei.it](http://www.mapei.it); our engineers can provide all the information you need to prepare your quotes.

## COMPATIBILITY OF MATERIALS FROM THE RESTORATION LINE WITH SUBSTRATES

All mortars from the **Mape-Antique**, **Mape-Antique NHL ECO**, **MapeWall** and **Poromap** lines have been developed to have a modulus of elasticity, compressive strength and levels of adhesion and breathability that are perfectly compatible with any type of masonry substrate made from bricks, clay, stone, tuff and mixed materials.

# EVERYTHING'S OK WITH MAPEI

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