

# *LIME-based products for ALL TYPES OF MASONRY*

## ***MapeWall***



# MapeWall

A range of breathable products made from natural hydraulic lime and inorganic reactive compounds for recovery, **consolidating**, **structural strengthening**, **rendering** and **building** load-bearing and partition brick, stone and mixed walls in old and new buildings, including listed buildings.

All the products in the **MapeWall** range meet specific certification requirements, as they comply with Euronorms EN 998-1 (Internal and external rendering mortar) and EN 998-2 (Masonry mortar). They are also Eco-sustainable mortars, in that they are certified EC1 R Plus by the GEV Institut, that is, with very low emission level of volatile organic compounds.

## The advantages of choosing *MapeWall* products:

- Certified
- Eco-sustainable
- Easy to apply
- Transpirant
- For all types of masonry
- Compatible with all types of finishing products
- It does not react with fire

Masonry Mortars



Injection Slurry



Transpirant Rendering mortar



Structural Rendering mortar



The line is made up of the following products:

### **MapeWall Inject & Consolidate**

High-strength super-fluid injection slurry

### **MapeWall Muratura Fine**

High-strength masonry mortar  
(Maximum size of aggregate 1.5 mm)

### **MapeWall Muratura Grosso**

Masonry mortar  
(Maximum size of aggregate 3 mm)

### **MapeWall Intonaco Base**

Transpirant mortar

### **MapeWall Render & Strengthen**

Structural and transpirant rendering mortar

NEW

NEW

# MapeWall Line

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## *MapeWall Inject & Consolidate*

**HIGH-STRENGTH SUPER-FLUID INJECTION SLURRY**



## *MapeWall Muratura Fine*

**HIGH-STRENGTH MASONRY MORTAR**



## *MapeWall Render & Strengthen*

**STRUCTURAL AND TRANSPIRANT RENDERING MORTAR**





## Complete system for consolidating and strengthening masonry buildings

- |          |  |          |   |
|----------|--|----------|---|
| <b>1</b> | Substrate<br>Brick masonry                                   | <b>6</b> | Wall<br><i>Ultratop Loft</i>                        |
| <b>2</b> | Render + mesh<br><i>MapeWall<br/>Render &amp; Strengthen</i> | <b>7</b> | Primer<br><i>Silancolor Primer</i>                  |
| <b>3</b> | Chemical anchor<br><i>Mapefix VE SF</i>                      | <b>8</b> | Paint<br><i>Silancolor Paint</i>                    |
| <b>4</b> | Render<br><i>MapeWall<br/>Render &amp; Strengthen</i>        | <b>9</b> | Masonry mortar<br><i>MapeWall<br/>Muratura Fine</i> |
| <b>5</b> | Primer<br><i>Eco Prim Grip</i>                               |          |   |

# *MapeWall Inject & Consolidate*

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## **HIGH-STRENGTH SUPER-FLUID INJECTION SLURRY**

**Reactive natural hydraulic lime-based inorganic binder, with very low emission level of VOC for making super-fluid injection slurry for consolidating masonry**

### **WHERE TO USE**

Super-fluid, volumetrically-stable injection slurry for consolidating:

- foundations, pillars, vaulted roofs and archways;
- “rubble masonries”;
- stone, brick, tuff and mixed masonry in general with cracks, gaps and internal cavities of existent buildings, included the listed ones.

## Technical Data

### Product identity and application

Colour:	light grey
Maximum size of aggregate (EN 1015-1):	100 $\mu\text{m}$
Bleeding test (EN 445):	< 0.1%
Fluidity of mix (EN 445):	< 20 s (initial) < 40 s (after 60 mins.)
Bulk density of wet mortar (EN 1015-6):	1.950 kg/m <sup>3</sup>

### Performance characteristics

Compressive strength (after 28 days) (EN 1015-11):	> 15 N/mm <sup>2</sup> (Class M 15)
Slip-resistance of steel rebar ( $\varnothing$ 16 mm) Maximum adhesion stress (EN 1881 mod):	8 N/mm <sup>2</sup>
Slip-resistance of glass reinforcing bars (Maperod G 40/10) Maximum adhesion stress (EN 1881 mod):	8 N/mm <sup>2</sup>
Initial shear strength ( $f_{vk}$ ):	0.15 N/mm <sup>2</sup>
Static modulus of elasticity after 28 days (EN 13412):	10,000 N/mm <sup>2</sup>
Capillary action water absorption (EN 1015-18):	< 0.6 kg/(m <sup>2</sup> · min <sup>0.5</sup> ) Category W 0
Thermal conductivity ( $\lambda_{10,dry}$ ) (EN 1745):	0.70 W/m · K (P = 50%)
Coefficient of permeability to water vapour (EN 1015-19):	15/35 $\mu$
Reaction to fire (EN 13501-1):	Class A1
Packaging:	20 kg bags
Consumption:	approx. 1.50 kg/dm <sup>3</sup> (of cavities to be filled)



# *MapeWall Muratura Fine*

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## **HIGH-STRENGTH MASONRY MORTAR**

**Transpirant masonry mortar, with high mechanical performances, based on hydraulic natural lime, with very low emission of VOC, for installation works, including “reinforced”, “touching-up” and “plumbing”**

### **WHERE TO USE**

- Building new load-bearing and buffer walls or rebuilding existing walls, including walls in listed buildings;
- pointing between layers of stone, brick and tuff on natural-finish masonry;
- forming and “reinforcing” joints using rebar or composites (such as **Maperod**);
- building facing walls with high performance masonry mortar in compliance with standards applied in seismic zones;
- “touching-up” and “plumbing” facing walls with gaps and/or uneven surfaces.



## Technical Data

### Product identity and application

Colour: **available in 7 colours**

Maximum size of aggregate (EN 1015-1): **1.5 mm**

Bulk density of wet mortar (EN 1015-6): **1,900 kg/m<sup>3</sup>**

Minimum applicable thickness: **5 mm**

Maximum applicable thickness per layer: **30 mm**

### Performance characteristics

Compressive strength after 28 days (EN 1015-11): **≥ 10 N/mm<sup>2</sup> (Class M 10)**

Adhesion to substrate (brickwork) (EN 1015-12): **≥ 0.40 N/mm<sup>2</sup> Failure mode (FB) = B**

Initial shear strength ( $f_{vok}$ ): **0.15 N/mm<sup>2</sup>**

Capillary action water absorption (EN 1015-18): **< 0.5 kg/(m<sup>2</sup> · min<sup>0.5</sup>) Category W 2**

Coefficient of permeability to water vapour (EN 1015-19): **15/35 μ**

Thermal conductivity ( $\lambda_{10,dry}$ ) (EN 1745): **0.75 W/m · K (P = 50%)**

Reaction to fire (EN 13501-1): **Class A1**

Packaging: **25 kg bags**

Consumption: **1.65 kg/dm<sup>3</sup> (of cavities to be filled)**

<b>TUFF</b>	<b>CREAM</b>	<b>IVORY</b>	<b>GREY</b>	<b>DOVE-GREY</b>	<b>BRICK-COLOURED</b>	<b>PINK</b>
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*Due to the printing processes involved, the colours should be taken as merely indicative*



# MapeWall Render & Strengthen



## **STRUCTURAL AND TRANSPIRANT RENDER**

**High-strength natural hydraulic lime-based transpirant rendering and masonry mortar with very low emission level of VOC for making structural and “reinforced” render**

### **WHERE TO USE**

- New internal and/or external high-performance transpirant render on stone, brick, tuff and mixed masonry;
- new render or renovating existing render on masonry, including buildings of historical or artistic interest;
- new render “reinforced” with galvanized or steel mesh or composites (such **Mapenet EM 30** and **Mapenet EM 40**), on weak masonry;
- “reinforced capping” in combination with metal reinforcing mesh on the outer face of vaulted roofs;
- levelling off uneven surfaces on the outer face of vaulted roofs;
- pointing between stone, brick and tuff elements on natural-finish masonry;
- forming joints, including joints “reinforced” with steel rebar;
- building facing walls with high performance masonry mortar in compliance with standards applied in seismic zones;
- “touching-up” and “plumbing” facing walls with gaps and/or uneven surfaces.

## Technical Data

### Product identity and application

Colour:	<b>hazel, beige and grey</b>
Maximum size of aggregate (EN 1015-1):	<b>2.5 mm</b>
Bulk density of wet mortar (EN 1015-6):	<b>1,900 kg/m<sup>3</sup></b>
Porosity of wet mortar (EN 1015-7):	<b>16%</b>
Minimum applicable thickness:	<b>10 mm</b>
Maximum applicable thickness per layer:	<b>30 mm</b>

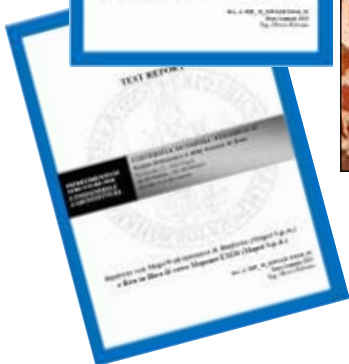
### Performance characteristics

Compressive strength (after 28 days) (EN 1015-11):	<b>&gt; 15 N/mm<sup>2</sup> (Category CS IV) (Class M 15)</b>
Adhesion to substrate (brickwork) (EN 1015-12):	<b>≥ 0.8 N/mm<sup>2</sup> Failure Mode (FB) = B</b>
Initial shear strength (f <sub>vok</sub> ):	<b>0.15 N/mm<sup>2</sup></b>
Static modulus of elasticity after 28 days (EN 13412):	<b>10,000 N/mm<sup>2</sup></b>
Capillary action water absorption (EN 1015-18):	<b>≤ 0.2 kg/(m<sup>2</sup> · min<sup>0.5</sup>) Category W 2</b>
Thermal conductivity (λ <sub>10,dry</sub> ) (EN 1745):	<b>0.67 W/m · K (P = 50%)</b>
Coefficient of permeability to water vapour (EN 1015-19):	<b>20 μ</b>
Reaction to fire (EN 13501-1):	<b>Class A1</b>
Packaging:	<b>25 kg bags</b>
Consumption:	<b>16 kg/m<sup>2</sup> (per cm of thickness)</b>



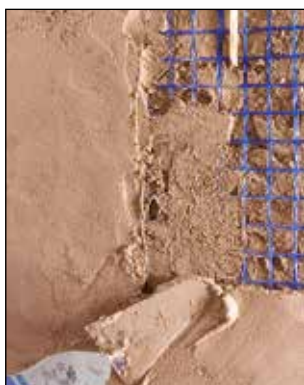
# “Reinforced” Structural Render

**MapeWall Render & Strengthen** combined with composite mesh (such as **Mapenet EM 30** and **Mapenet EM 40**) or galvanized steel mesh complies with the approach specified in the guidelines for the qualification of FRCM (Fibre Reinforced Cementitious Matrix) systems, which stipulate that the entire strengthening system must be qualified.



*Test reports to verify the compliance and performance characteristics of the matrix/strengthening system, issued by the Federico II University of Naples, are available on request.*

Application of **MapeWall Render & Strengthen**  
combined with **Mapenet EM 30** and **Mapenet EM Connector**



Application of **MapeWall Render & Strengthen**  
combined with galvanized steel mesh



# MapeWall Line

## MapeWall Muratura Grosso

NEW

**TRANSPIRANT MASONRY MORTAR**

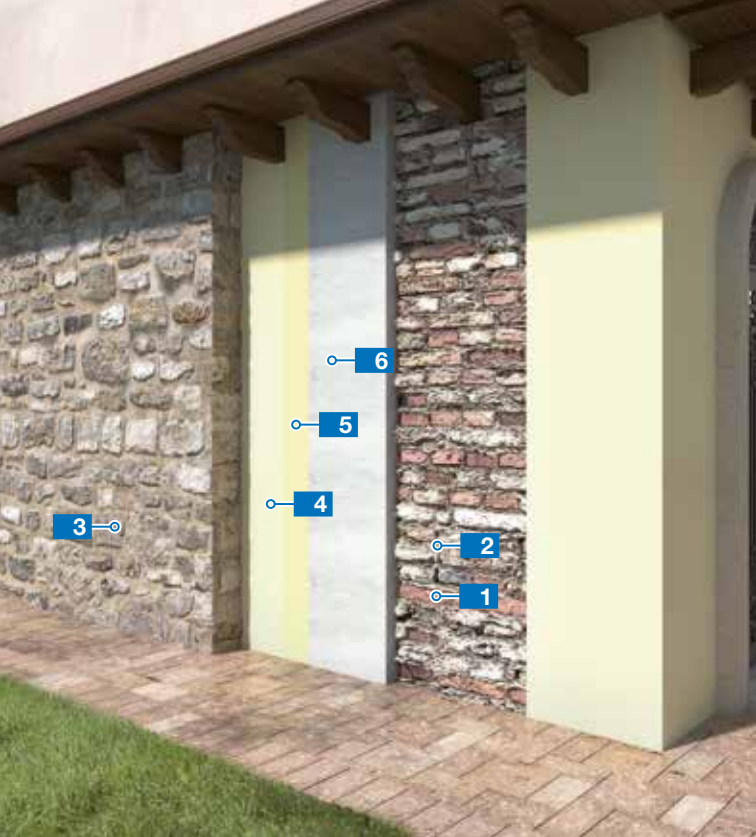


## MapeWall Intonaco Base

NEW

**TRANSPIRANT MORTAR**





**Complete system both for the transpirant rendering of existing walls and for the pointing of “exposed” stones**

- |  |  |
|--|--|
| <p><b>1</b> Substrate<br/>Brick masonry</p>                            | <p><b>4</b> Transpirant mortar<br/><i>MapeWall<br/>Intonaco Base</i></p> |
| <p><b>2</b> Masonry mortar<br/><i>MapeWall<br/>Muratura Grosso</i></p> | <p><b>5</b> Primer<br/><i>Silexcolor Base Coat</i></p>                   |
| <p><b>3</b> Substrate<br/>Stone masonry</p>                            | <p><b>6</b> Coloured plaster<br/><i>Silexcolor Tonachino</i></p>         |

# *MapeWall Muratura Grosso*

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## **BREATHABLE MASONRY MORTAR**

**Breathable, natural hydraulic lime-based masonry mortar with very low emission of VOC for general building work, including “reinforced” masonry and touching up and plumbing walls**

### **AREAS OF USE**

- Building new load-bearing and partition walls or rebuilding existing walls, including walls in listed buildings;
- pointing natural-finish stone, brick and tuff masonry;
- installation joints, including joints “reinforced” with rebar or composite material (such as **Maperod**);
- touching-up and plumbing facing walls with gaps and/or breaks in the surface.



## Technical Data

### Product identity and application

Colour:	light beige
Maximum size of aggregate (EN 1015-1):	3 mm
Bulk density of wet mortar (EN 1015-6):	1,950 kg/m <sup>3</sup>
Minimum applicable thickness:	10 mm
Maximum applicable thickness per layer:	40 mm

### Performance characteristics

Compressive strength after 28 days (EN 1015-11):	≥ 5 N/mm <sup>2</sup> (Class M 5)
Adhesion to substrate (brickwork) (EN 1015-12):	≥ 0.30 N/mm <sup>2</sup> Failure mode (FB) = B
Initial shear strength (f <sub>vok</sub> ):	0.15 N/mm <sup>2</sup>
Capillary action water absorption (EN 1015-18):	< 0.70 kg/(m <sup>2</sup> · min <sup>0.5</sup> ) Category W 2
Coefficient of permeability to water vapour (EN 1015-19):	15/35 μ
Thermal conductivity (λ <sub>10,dry</sub> ) (EN 1745):	0.80 W/m · K (P = 50%)
Reaction to fire (EN 13501-1):	Class A1
Packaging:	25 kg bags
Consumption:	1.70 kg/dm <sup>3</sup> (of cavities to be filled)



# *MapeWall Intonaco Base*

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## **BREATHABLE RENDER**

**Breathable base render made from natural hydraulic lime for external use; applied by trowel or with a rendering machine**

### **AREAS OF USE**

- New internal and/or external breathable render; applied by trowel or with a rendering machine on stone, brick, tuff and mixed walls without capillary rising damp;
- new render or repairs to existing and/or weak lime-based render on stone, brick, tuff and mixed masonry.

## Technical Data

### Product identity and application

Colour:	light grey
Maximum size of aggregate (EN 1015-1):	1.4 mm
Bulk density of wet mortar (EN 1015-6):	1,750 kg/m <sup>3</sup>
Minimum applicable thickness:	10 mm
Maximum applicable thickness per layer:	20 mm

### Performance characteristics

Compressive strength (after 28 days) (EN 1015-11):	Category CS II
Adhesion to substrate (brickwork) (EN 1015-12):	≥ 0.30 N/mm <sup>2</sup> Failure Mode (FB) = B
Capillary action water absorption (EN 1015-18):	Category W 0
Thermal conductivity ( $\lambda_{10, dry}$ ) (EN 1745):	0.57 W/m · K (P = 50%)
Coefficient of permeability to water vapour (EN 1015-19):	≤ 12 $\mu$
Reaction to fire (EN 13501-1):	Class A1
Packaging:	25 kg bags
Consumption:	15 kg/m <sup>2</sup> (per cm of thickness)



**NEW**





● **Technical documentation**

From the technical area menu you can view the technical documentation divided per product lines and type of document.

**HEADQUARTERS**

**MAPEI SpA**

Via Cafiero, 22 - 20158 Milan

Tel. +39-02-37673.1

Fax +39-02-37673.214

Internet: [www.mapei.com](http://www.mapei.com)

E-mail: [mapei@mapei.it](mailto:mapei@mapei.it)



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