PoroMap

***HYDRAULIC POZZOLANIC-REACTION BINDER** BASED **PRODUCTS FOR RENOVATING** MASONRY*

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MAPEI
ADHESIVES • SEALANTS • CHEMICAL PRODUCTS FOR BUILDING

PoroMap Line

The **PoroMap** line of products is the ideal solution for restoring masonry with rising damp and structures damaged by the crumbling effect of sulphate salts, chlorides and nitrates.

All the products in the **PoroMap** line are made from hydraulic pozzolanic-reaction binders. They meet specific certification requirements, because they comply with EN 998-1 (Internal and external rendering mortar). They are also considered Eco-Sustainable mortars, as they are certified EC1 R Plus by the GEV Institut, with very low emission of volatile organic compounds.

The advantages of choosing *PoroMap* products:

- Certified
- Eco-Sustainable
- Simple application
- Encourages masonry to dry out
- Insulating properties
- Resistant to soulble salts
- For all types of masonry
- Compatible with all types of mineral finishing products

With the **PoroMap** line of products, Mapei meets the demand for **renovating** brick, stone and tuff masonry, including recently constructed buildings damaged both by rising damp and saline efflorescence. The line is made up of trowellable and spray-applied products, as well as a fine-textured surface-finishing product.

PoroMap Line

Application by trowel:

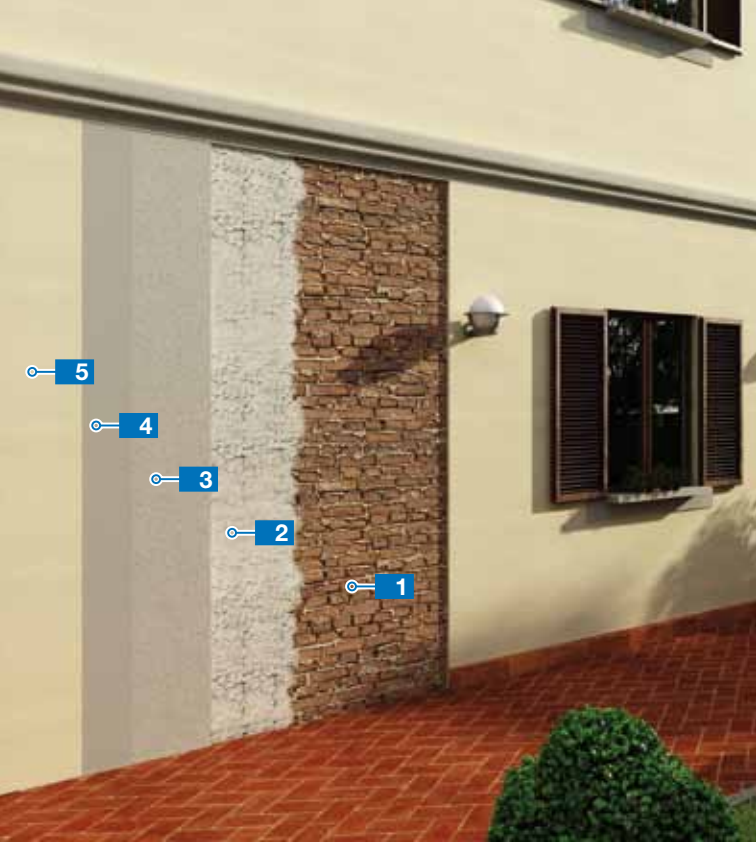
- ***PoroMap Rinzaffo***
  TRANSPIRANT SCRATCH-COAT MORTAR
- ***PoroMap Intonaco***
  DEHUMIDIFYING AND INSULATING RENDER

Application with rendering machine:

- ***PoroMap Rinzaffo Macchina***
  TRANSPIRANT SCRATCH-COAT MORTAR
- ***PoroMap Intonaco Macchina***
  DEHUMIDIFYING AND INSULATING RENDER

And to complete the line:

- ***PoroMap Finitura***
  FINE-TEXTURED TRANSPIRANT SKIMMING MORTAR



Renovating existing masonry with rising damp

1. Existing masonry
2. Scratch-coat mortar ***PoroMap Rinzaffo***
3. Dehumidifying render ***PoroMap Intonaco***
4. Coloured undercoat ***Silancolor Base Coat***
5. Siloxane coating product ***Silancolor Tonachino***

PoroMap Rinzaffo

TRANSPIRANT SCRATCH-COAT MORTAR

Salt-resistant, transpirant scratch-coat mortar, based on hydraulic pozzolanic-reaction binder, to be used by hand as first layer when applying dehumidifying renders

WHERE TO USE

- Internal and/or external macroporous, dehumidifying and insulating render on stone, brick, tuff and mixed masonry, including recently constructed buildings, with capillary rising damp and saline efflorescence;
- dehumidifying and insulating render on stone masonry (such as limestone) and/or particularly porous, absorbent brick masonry and in general wherever there is saline efflorescence;
- dehumidifying and insulating render on masonry in lagoon areas or close to the sea.

GREEN INNOVATION

Technical Data

Product and application information	
Colour:	**light grey**
Maximum size of aggregate (EN 1015-1):	**2.5 mm**
Bulk density of wet mortar (EN 1015-6):	**1,800 kg/m³**
Porosity of wet mortar (EN 1015-7):	**> 20%**
Thickness to be applied:	**5 mm**
Performance characteristics	
Compressive strength after 28 days (EN 1015-11):	**≥ 8 N/mm² (Category CS IV)**
Adhesion to substrate (brickwork) (EN 1015-12):	**≥ 0.5 N/mm² Failure mode (FB) = B**
Capillary action water absorption (EN 1015-18):	**Category W 1**
Coefficient of permeability to water vapour (EN 1015-19):	**< 20 μ**
Thermal conductivity ($\lambda_{10,dry}$) (EN 1745):	**0.71 W/m • K (*P* = 50%)**
Reaction to fire (EN 13501-1):	**Class A1**
Resistance to sulphates:	**high**
Saline efflorescence (after semi-immersion in water):	**absent**
Packaging:	**25 kg bags**
Consumption:	**7.5-8 kg/m² (for a 5 mm thick layer)**

GEV-EMICODE EC 1 PLUS very low emission

CE EN 998-1

EN COMPLIANCE WITH EUROPEAN STANDARD EN 998-1 GP-CS IV MAPEI RENDERING AND PLASTERING MORTAR

PoroMap Intonaco

MACROPOROUS DEHUMIDIFYING AND INSULATING RENDER

Salt-resistant, macroporous dehumidifying and insulating render, based on hydraulic pozzolanic-reaction binder, to be used by hand for renovating masonries by the presence of rising damp and soluble salts

WHERE TO USE

- Internal and/or external macroporous, dehumidifying and insulating render on stone, brick, tuff and mixed masonry, including recently constructed buildings, with capillary rising damp and saline efflorescence;
- dehumidifying and insulating render on stone masonry (such as limestone) and/or particularly porous, absorbent brick masonry, and in general wherever there is saline efflorescence;
- dehumidifying and insulating render on structures in lagoon areas or close to the sea;
- repairing damaged render on buildings built using low performance mortar;
- pointing between stone, brick and tuff elements on natural finish masonry.

GREEN INNOVATION

Technical Data

Product and application information	
Colour:	**light grey**
Maximum size of aggregate (EN 1015-1):	**1 mm**
Bulk density of wet mortar (EN 1015-6):	**1,300 kg/m³**
Porosity of wet mortar (EN 1015-7):	**> 25%**
Minimum applicable thickness:	**20 mm**
Maximum applicable thickness per layer:	**30 mm**
Performance characteristics	
Compressive strength after 28 days (EN 1015-11):	**2.5 N/mm² (Category CS II)**
Adhesion to substrate (brickwork) (EN 1015-12):	**≥ 0.4 N/mm² Failure mode (FB) = B**
Capillary action water absorption (EN 1015-18):	**2.5 kg/m²**
Coefficient of permeability to water vapour (EN 1015-19):	**≤ 10 μ**
Thermal conductivity ($\lambda_{10,dry}$) (EN 1745):	**0.34 W/m • K (*P* = 50%)**
Reaction to fire (EN 13501-1):	**Class A1**
Resistance to sulphates:	**high**
Saline efflorescence (after semi-immersion in water):	**absent**
Packaging:	**20 kg bags**
Consumption:	**10–11.5 kg/m² (per cm of thickness)**

GEV-EMICODE EC 1 PLUS very low emission

CE EN 998-1

IN COMPLIANCE WITH EUROPEAN STANDARD EN 998-1 GP-CS II MAPEI RENDERING AND PLASTERING MORTAR

PoroMap Rinzaffo Macchina

TRANSPIRANT SCRATCH-COAT MORTAR

Salt-resistant, transpirant scratch-coat mortar, based on hydraulic pozzolanic-reaction binder, to be used by rendering machine as first layer when applying dehumidifying renders

WHERE TO USE

- Internal and/or external macroporous, dehumidifying and insulating render on stone, brick, tuff and mixed masonry, including recently constructed buildings, with capillary rising damp and saline efflorescence;
- dehumidifying and insulating render on stone masonry (such as limestone) and/or particularly porous, absorbent brick masonry and in general wherever there is saline efflorescence;
- dehumidifying and insulating render on masonry in lagoon areas or close to the sea.

Technical Data

Product and application information	
Colour:	**light grey**
Maximum size of aggregate (EN 1015-1):	**2.5 mm**
Bulk density of wet mortar (EN 1015-6):	**1,800 kg/m³**
Porosity of wet mortar (EN 1015-7):	**> 20%**
Thickness to be applied:	**5 mm**
Performance characteristics	
Compressive strength after 28 days (EN 1015-11):	**≥ 8 N/mm² (Category CS IV)**
Adhesion to substrate (brickwork) (EN 1015-12):	**≥ 0.5 N/mm² Failure mode (FB) = B**
Capillary action water absorption (EN 1015-18):	**Category W1**
Coefficient of permeability to water vapour (EN 1015-19):	**< 20 μ**
Thermal conductivity ($\lambda_{10,dry}$) (EN 1745):	**0.57 W/m • K (*P* = 50%)**
Reaction to fire (EN 13501-1):	**Class A1**
Resistance to sulphates:	**high**
Saline efflorescence (after semi-immersion in water):	**absent**
Packaging:	**25 kg bags**
Consumption:	**7.5-8 kg/m² (for a 5 mm thick layer)**

GEV-EMICODE EC 1 PLUS very low emission

CE EN 998-1

EN COMPLIANCE WITH EUROPEAN STANDARD EN 998-1 GP-CS IV MAPEI RENDERING AND PLASTERING MORTAR

PoroMap Intonaco Macchina

MACROPOROUS DEHUMIDIFYING AND INSULATING RENDER

Salt-resistant, macroporous dehumidifying and insulating render, based on hydraulic pozzolanic-reaction binder, to be used by rendering machine for renovating masonries deteriorated by the presence of rising damp and soluble salts

WHERE TO USE

- Internal and/or external macroporous, dehumidifying and insulating render on stone, brick, tuff and mixed masonry, including recently constructed buildings, with capillary rising damp and saline efflorescence;
- dehumidifying and insulating render on stone masonry (such as limestone) and/or particularly porous, absorbent brick masonry, and in general wherever there is saline efflorescence;
- dehumidifying and insulating render on structures in lagoon areas or close to the sea;
- repairing damaged render on buildings built using low performance mortar;
- pointing between stone, brick and tuff elements on natural-finish masonry.

Technical Data

Product and application information	
Colour:	**light grey**
Maximum size of aggregate (EN 1015-1):	**1 mm**
Bulk density of wet mortar (EN 1015-6):	**1,200 kg/m³**
Porosity of wet mortar (EN 1015-7):	**> 20%**
Minimum applicable thickness:	**20 mm**
Maximum applicable thickness per layer:	**30 mm**
Performance characteristics	
Compressive strength after 28 days (EN 1015-11):	**2.5 N/mm² (Category CS II)**
Adhesion to substrate (brickwork) (EN 1015-12):	**≥ 0.4 N/mm² Failure mode (FB) = B**
Capillary action water absorption (EN 1015-18):	**2.5 kg/m²**
Coefficient of permeability to water vapour (EN 1015-19):	**≤ 10 μ**
Thermal conductivity ($\lambda_{10,dry}$) (EN 1745):	**0.30 W/m • K (*P* = 50%)**
Reaction to fire (EN 13501-1):	**Class A1**
Resistance to sulphates:	**high**
Saline efflorescence (after semi-immersion in water):	**absent**
Packaging:	**20 kg bags**
Consumption:	**11.5-13 kg/m² (per cm of thickness)**

GEV-EMICODE EC 1 PLUS very low emission

CE EN 998-1

EN COMPLIANCE WITH EUROPEAN STANDARD EN 998-1 GP-CS II MAPEI RENDERING AND PLASTERING MORTAR

PoroMap Finitura

FINE-TEXTURED TRANSPIRANT SKIMMING MORTAR

Salt-resistant, fine-texture transpirant skimming mortar, based on lime, for a natural finish on render

WHERE TO USE

- Natural finish on internal/external coarse-textured, dehumidifying and insulating, macroporous render when renovating masonry damaged by capillary rising damp and soluble salts;
- natural finish on coarse-textured dehumidifying render on masonry in lagoon areas or close to the sea;
- natural finish on new dehumidifying render or existing lime-based render on stone, brick, tuff and mixed masonry, including on buildings of historical and artistic interest;
- natural finish on coarse-textured transpirant lime-based render;
- natural finish skim coats on lime-based render damaged by atmospheric agents, weather conditions or ageing.

Technical Data

Product and application information	
Colour:	**creamy white**
Maximum size of aggregate (EN 1015-1):	**0.4 mm**
Bulk density of wet mortar (EN 1015-6):	**1,800 kg/m³**
Maximum applicable thickness per layer:	**2 mm**
Performance characteristics	
Compressive strength after 28 days (EN 1015-11):	**10 N/mm² (Category CS IV)**
Adhesion to substrate (brickwork) (EN 1015-12):	**≥ 0.6 N/mm² Failure mode (FB) = B**
Capillary action water absorption (EN 1015-18):	**Category W 2**
Coefficient of permeability to water vapour (EN 1015-19):	**≤ 15 μ**
Thermal conductivity ($\lambda_{10,dry}$) (EN 1745):	**0.67 W/m • K (*P* = 50%)**
Reaction to fire (EN 13501-1):	**Class E**
Resistance to sulphates:	**high**
Saline efflorescence (after semi-immersion in water):	**absent**
Packaging:	**25 kg bags**
Consumption:	**1.4 kg/m² (per mm of thickness)**

GEV-EMICODE EC 1 PLUS very low emission

CE EN 998-1

EN COMPLIANCE WITH EUROPEAN STANDARD EN 998-1 GP-CS IV MAPEI RENDERING AND PLASTERING MORTAR

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Technical documentation

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

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