

POROVENT FONDO PRONTO

HYDRAULIC LIME-BASED ANTI-SALINE RENDER FOR RESTORING WALLS SUBJECT TO CAPILLARY RISING DAMP AND SURFACING SALTS

POROVENT INTONACO PRONTO

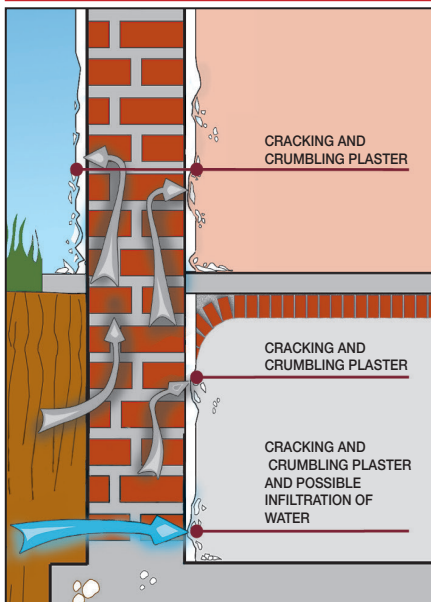
HYDRAULIC LIME-BASED TRANSPIRING MACROPOROUS DAMP-PROOFING PLASTER FOR RESTORING WALLS AFFECTED BY CAPILLARY RISING DAMP

GRANTS *LEED* CREDITS

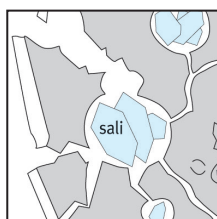
CHARACTERISTICS		ENVIRONMENTAL		METHOD OF USE			PRECAUTIONS
DAMP-PROOFING	ALLOWS TO BREATHE	ECO GREEN	RECYCLABLE	MIX MECHANICALLY	SPRAY APPLICATION	APPLY BY TROWEL	STORAGE: IN A DRY PLACE

PROBLEM

DAMP-PROOFING WALLS SUBJECT TO CAPILLARY RISING DAMP



Damp and its effects make environments unhealthy and unbearable. Capillary rising damp is a problem that often affects the walls of old and modern buildings, causing damage to mortar and brickwork. This process is caused by the capillary absorption of porous building materials in contact with subsoil water. The effects are devastating: damp walls and crumbly plaster due to the crystallisation of the salts transported by water that cause the plaster to break and come detached because of the increase in volume of the salt crystals.



Degradation of the plaster caused by salts crystallising in the micropores

SOLUTION

The damp-proof plaster **POROVENT SYSTEM PRONTO** has the following important characteristics:

- uniform macroporosity;
- low water absorption;
- chemical-physical compatibility with old underlying surfaces and plaster.

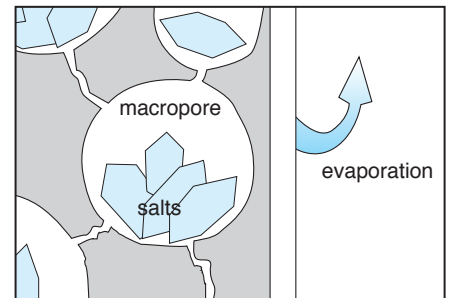
POROVENT SYSTEM PRONTO is based on the application of a damp-proofing and macroporous plaster in which the evaporation mechanism is due to the considerable macropore surface of the plaster obtained through the use of special porogenous additives and special aggregates. This surface is twenty times the specific surface of normal plaster. This aerating condition allows the plaster to let the water from capillary rising damp evaporate quicker than the humidification speed, without causing degradation due to surfacing salts. **POROVENT SYSTEM PRONTO** is comprised of two products.

• **POROVENT FONDO PRONTO**
Premixed powder containing hydraulic binders, selected aggregates and various additives. The base coat is used to improve the grip of the following layer of macroporous plaster and to put the two systems in contact with each other through suitable capillary netting. It also forms an anti-saline barrier.

• **POROVENT INTONACO PRONTO**
Premixed powder containing a base of natural hydraulic lime and silicate-based macroporous light aggregates. It is water repellent and contains reinforcement fibres and porogenous additives. The macro pores allow **POROVENT INTONACO PRONTO** to limit any unappealing efflorescence phenomena and stress caused by the increase in volume due to the crystallisation of the salts. The high level of transpiration guarantees the correct elimination of excess damp.

APPLICATION FIELDS

POROVENT SYSTEM PRONTO is particularly suitable for renovating interior and exterior walls affected by capillary rising damp and surfacing salts.



ADVANTAGES

- Easy to apply.
- Excellent transpirability.
- Natural elimination of excess damp in brickwork.
- Stops the disintegrating action of salts and damp stains.
- Excellent resistance to frost-thaw cycles.
- Natural composition ideally used to renovate/preserve historic buildings.

POROVENT FONDO PRONTO



POROVENT INTONACO PRONTO



INTERVENTION ABOVE GROUND IN THE PRESENCE OF INTERIOR AND EXTERIOR CAPILLARY RISING DAMP

METHOD OF USE

• SURFACE PREPARATION

Damp walls must have the plaster removed for approximately one metre beyond the clear sign of damp. Remove disjointed parts without any consistency, oils, release agents, salts, dust and dirt in general, by hammering, brushing and water jet cleaning.

Fill any cavities with brick fragments and lime mortar.

If there are high salt concentrations apply the anti-saline impregnating agent DEUMISAL (1).

• MIX PREPARATION AND APPLICATION POROVENT FONDO PRONTO

The mortar is obtained by mixing clean water with the 25 kg bag of POROVENT FONDO PRONTO in a cement mixer for the amount of time necessary to obtain a homogeneous mix (2). Apply a render coat of semi-liquid mortar on the prepared surface, which acts as an anti-saline gripping agent (3).

• MIX PREPARATION AND APPLICATION POROVENT INTONACO PRONTO

The mortar is made by mixing clean water with the 25 kg bag of POROVENT INTONACO PRONTO.

Do not mix for longer than three minutes in the cement mixer (4).

Apply POROVENT INTONACO PRONTO with-

in one hour after the mixture is ready, in one or more coats, until you reach the minimum recommended thickness of 2 cm.

POROVENT INTONACO PRONTO can be applied using a trowel or with automatic spraying machines (5) such as PFT or TURBOSOL. Application does not require any particular precautions, in addition to those normally followed when laying normal plasters.

The workability is such as to allow application in any architectural solution.

Joints of different elements must be reinforced with special alkali-resistant fibreglass netting, which should be embedded in the surface layer of the plaster. Joints and holes in walls must be sealed-off beforehand. To respect the level and flatness of the walls, we recommend using edge guards in the corners and vertical guides on the walls.

• FINISHING

For painting, use strongly transpiring lime, silicate or siloxane based wall paints, such as *BioCALCECOLOR* and *SILICOLOR* or decorative mineral coatings, such as *DECORFINE* (6).

• CONSUMPTION

7 kg/m²×0,5 cm **POROVENT FONDO PRONTO**
12 kg/m²×cm **POROVENT INTONACO PRONTO**.

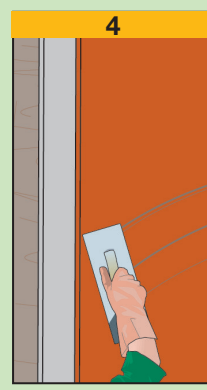
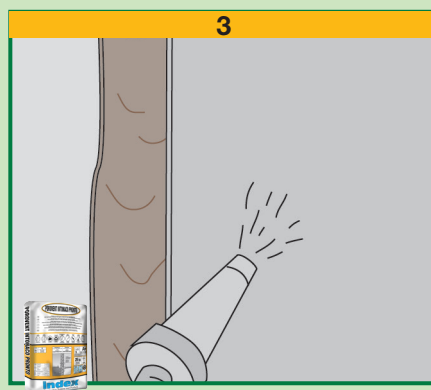
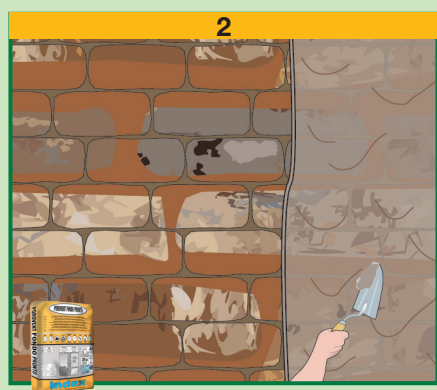
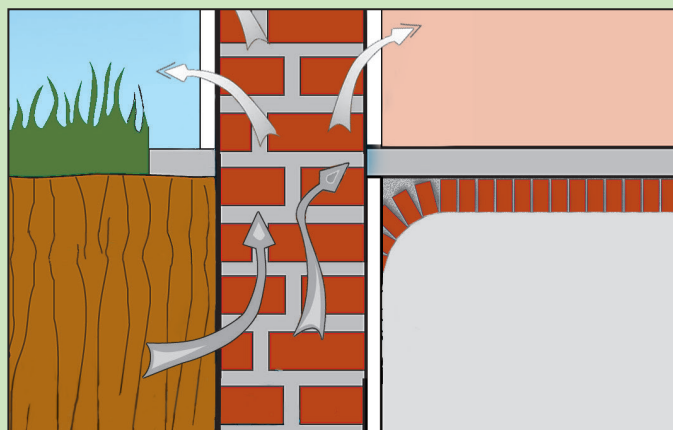
changes while the plaster is setting.

- Do not add water when the mix starts to set.
- For application on smooth or not very absorbing surfaces, always foresee a rendering coat and make sure of its correct adhesion
- In environments where there is damp caused by water infiltration, a waterproofing treatment must be applied before the plaster, with *OSMOSEAL* osmotic cement (see "WORK BELOW GROUND LEVEL IN THE EVENT OF GROUND WATER PENETRATION AND RISING DAMP"). For this purpose, please consult the chapter entitled "RENOVATING DAMP WALLS WITH DEHUMIDIFYING PLASTER"
- Joints between different elements must be reinforced with special fibreglass mesh, *RETINVETRO PER INTONACI*, which should be embedded in the last layer of plaster.
- Store in original closed packaging in a dry place. Protect against frost and high temperatures.



• PRECAUTION

- Use cold water in the summer and water at 20°C in the winter.
- Application temperature from +5°C to +35°C.
- Do not add other materials such as bonding agents, aggregates or additives.
- In hot weather, keep the surface of the laid mortar wet, preventing the product from drying out quickly, for at least 8 hours.
- Wet the surfaces in high temperatures.
- Avoid sudden temperature



4. Finishing *SILICOLOR* or *DECORFINE* or *BioCALCECOLOR*

3. Damp-proofing plaster **POROVENT INTONACO PRONTO**

2. Render **POROVENT FONDO PRONTO**

1. Anti-saline impregnating **DEUMISAL**

Wall above ground with capillary rising damp

WORK ON FOUNDATION WALLS IN THE PRESENCE OF INFILTRATIONS OF GROUNDWATER AND CAPILLARY RISING DAMP

METHOD OF USE

• SURFACE PREPARATION

Remove the old plaster. Remove disjointed parts without any consistency, oils, release agents, salts, dust and dirt in general, by hammering, brushing and water jet cleaning.

Stop any water infiltrations with **BETONRAPID (1)**.

• APPLICATION

OF THE WATER-REPELLENT PLASTER

Apply **IDROPLAN** by hand or with a spraying machine, in a minimum layer of 1 cm (2).

IDROPLAN is to be mixed with just 20% of clean water. Do not mix for more than 3-4 minutes in the cement mixer.

• OSMOTIC WATERPROOFING

To prepare the mix, gradually pour the **OSMOSEAL** product into enough water (20%) to create a honey-consistency mortar, mixing with a low-speed drill mixer. Apply **OSMOSEAL** osmotic waterproofing cement using a paintbrush to apply one coat and then a second coat while the first is still wet (3).

• MIX PREPARATION AND APPLICATION

POROVENT FONDO PRONTO

The mortar is obtained by mixing clean water with the 25 kg bag of **POROVENT FONDO PRONTO** in a cement mixer for the amount of time necessary to obtain a homogeneous mix. Apply a render coat of semi-liquid mortar on the

prepared surface, which acts as an anti-saline gripping agent (4).

• MIX PREPARATION AND APPLICATION

POROVENT INTONACO PRONTO

The mortar is made by mixing 6 litres of clean water per 25 kg bag of **POROVENT INTONACO PRONTO**.

Do not mix for longer than three minutes in the cement mixer. Apply **POROVENT INTONACO PRONTO** within one hour after the mixture is ready, in one or more coats, until you reach the minimum recommended thickness of 2 cm.

POROVENT INTONACO PRONTO can be applied using a trowel or with automatic spraying machines (5) such as PFT or TURBOSOL. Joints of different elements must be reinforced with special alkali-resistant fibreglass netting, which should be embedded in the surface layer of the plaster.

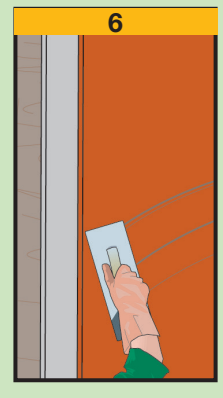
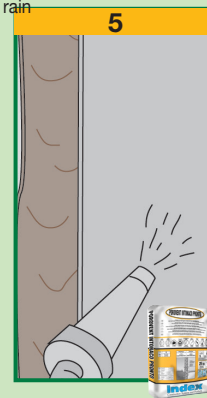
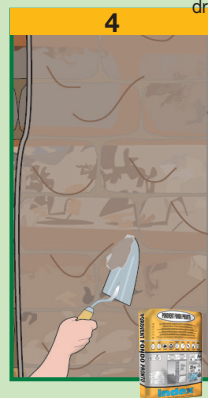
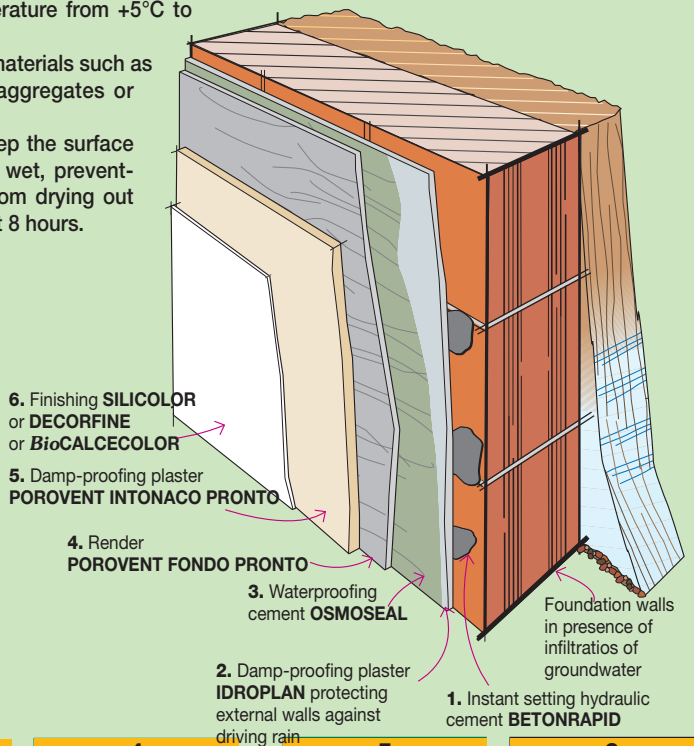
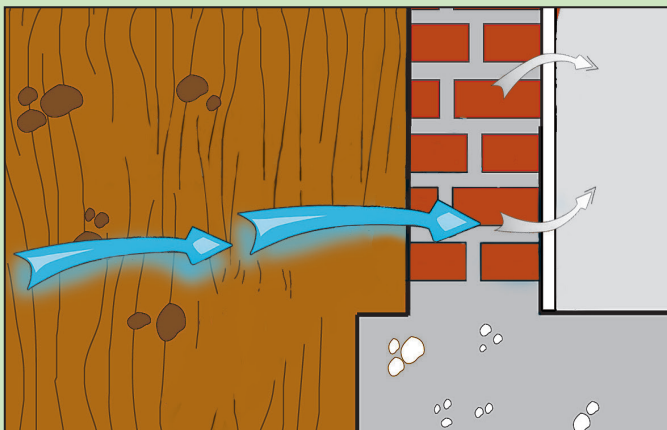
• FINISHING

For painting, use strongly transpiring lime, silicate or siloxane based wall paints, such as **BioCALCECOLOR** and **SILICOLOR** or decorative mineral coatings, such as **DECORFINE (6)**.

• CONSUMPTION

7 kg/m²×0,5 cm **POROVENT FONDO PRONTO**
12 kg/m²×cm **POROVENT INTONACO PRONTO**.

- Wet the surfaces in high temperatures.
- Avoid sudden temperature changes while the plaster is setting.
- Do not add water when the mix starts to set.
- For application on smooth or not very absorbing surfaces, always foresee a rendering coat and make sure of its correct adhesion
- In environments where there is damp caused by water infiltration, waterproofing treatment must be applied before the plaster, with **OSMOSEAL** osmotic cement (see "WORK BELOW GROUND LEVEL IN THE EVENT OF GROUND WATER PENETRATION AND RISING DAMP"). For this purpose, please consult the chapter entitled "RENOVATING DAMP WALLS WITH DEHUMIDIFYING PLASTER"
- Joints between different elements must be reinforced with special fibreglass mesh, **RETINVETRO PER INTONACI**, which should be embedded in the last layer of plaster.
- Store in original closed packaging in a dry place. Protect against frost and high temperatures.



TECHNICAL CHARACTERISTICS

	Standard	POROVENT FONDO PRONTO	POROVENT INTONACO PRONTO
Appearance		Powder	Powder
Colour		Grey	Grey
Particle size		0÷2.5 mm	0÷1.3 mm
Apparent density		1.55 ± 0.05 kg/ℓ	1.45 ± 0.05 kg/ℓ
Mixing water		16% ± 1%	20% ± 1%
Storage in original packaging in a dry place		12 months	12 months
Mix properties and workability	Standards		
Density of the mix	EN 1015-6	1.75 ± 0.05 kg/ℓ	1.85 ± 0.05 kg/ℓ
Application temperature		+5°C ÷ +35°C	+5°C ÷ +35°C
Minimum application thickness		4.0 mm	8.0 mm
Maximum application thickness per layer		8.0 mm	30.0 mm
Application		Manual	Manual or mechanical
Performance characteristics	Standards	Product performance	Product performance
Class and type	EN 998-1	GP	R
Resistance to compression - after 28 days	EN 1015-11	13.0 N/mm ² - CS IV	4.4 N/mm ² - CS II
Resistance to bending - after 28 days	EN 1015-11	4.0 N/mm ²	2.0 N/mm ²
Adhesion	EN 1015-12	≥0.5 N/mm ² - FP: A	≥0.3 N/mm ² - FP: B
Adhesion to concrete substrate	EN 1015-12	>1.2 N/mm ² - FP: A	0.72 N/mm ² - FP: B
Water absorption through capillarity	EN 1015-18	w ≤ 0.4 kg/m ² ·h ^{0.5} - W1	w ≤ 0.1 kg/m ² ·h ^{0.5} - W2
Water vapour permeability coefficient	EN 1015-19	μ = 20	μ = 8
Thermal conductivity λ_{10,dry}	EN 1745 A.12	0.76 W/mK	0.54 W/mK
Durability	EN 998-1	5.2.3.2 compliant	5.2.3.2 compliant
Thermal resistance - Working temperature		-30°C ÷ +90°C	-30°C ÷ +90°C
Reaction to fire	EN 13501-1	A1	A1
Hazardous substances	EN 998-1	According note in ZA.1	According note in ZA.1

Test conditions: temperature 23±2°C, R.H. 50±5% and air speed in the test area <0.2 m/s. **These figures may vary depending on the specific conditions of the worksite: temperature, humidity, ventilation, absorbency of the base coat.**

(*) The stated times may be longer or shorter as the temperature decreases or increases.

Compliant with the general principles defined in **EN 998-1** - Principles for evaluation of the use of products and systems.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

PACKAGING

POROVENT FONDO PRONTO

25-kg Sack

POROVENT INTONACO PRONTO

25-kg Sack

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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