

The 'moisture-pushing' effect Wall-drying plaster



AFON CASA
PRODOTTI SPECIALI PER L'EDILIZIA

Technical specifications

NOVOMUR PACKAGES

NOVOMUR with binder (Portland cement) is available in 35kg packages, while binder-free **NOVOMUR** comes in 20kg packages, and the binder is added on the site just before use; each package comes with its additive.

BINDERS

Binder-free **NOVOMUR** may be mixed with pozzolana cement, such as Portland cement 325 or AFONCASA natural lean lime.

TECHNICAL SPECIFICATIONS

Thermal conductivity	$\lambda = 0,045 \text{ Kcal/m}^2/\text{h}/^\circ\text{C} (0,055 \text{ W/mK})$
Vapour resistance	$\mu = 5,3$
Vapour transmission rate	= 370 gr day/m ² 2,5 cm thick.
Apparent specific gravity	= 150 Kg./ m ³
Solid content	= Approximately 475 Kg./ m ³
Compressive strength	= 12 Kg./ cm ² after 30 days
Fire resistance	= Non combustible
Rot proofing	= Rot proof
Setting time	= 24 hours
Drying time	= 5 - 6 days

BINDER-FREE NOVOMUR

Yield: Kg 1.5 / sqmt, 1 cm thick.

NOVOMUR WITH CONCRETE BINDER

Yield: Kg 5 / sqmt, 1 cm thick.

SPECIFICATION

Drying/insulating plaster for removing damp or condensation or as thermal insulation, with a macro- pitted texture, coefficient $\mu = 5.3$ for 2.5 cm thick, Vapour transmission rate = 370 gr a day/ m², Thermal conductivity $\lambda = 0.045 \text{ kcal/m}^2/\text{h}/^\circ\text{C} (0.055 \text{ W/mK})$, with soundproofing and antioxidant properties.

How to blend

Remove the plaster from the damp wall up to the damp mark. The product does not need to be applied above this level; thoroughly wash the wall; sprinkle with very runny cement lime mortar, made with thick sand, concrete and water.

BINDER-FREE NOVOMUR

Blend the binder-free plaster NOVOMUR in a 300-litre cement mixer, as described below:

- 40 litres water (if needed, more water may be added later);
- Kg 50 Portland 325 cement or kg 35 natural lean lime;
- 1 litre "Additive" (one bottle);

Now, carefully proceed as follows:

- Make sure concrete is not stuck to the bottom of the mixer; if it is, then stop the mixer and remove it;
- With the mixer stationary, vertically pour an entire 20kg bag of NOVOMUR into it.
- Tip the mixer, wait a few seconds until the water wets all the mass; if it is not enough, add more water in small doses. If the mortar is instead too thin, add some lime to thicken it.

NOTICE: the resulting mortar must be neither too thin nor too firm; it must look like a thixotropic mass: soft and thick.

From now on, the mixer must run for 5 to 7 minutes, then the mixer should be stopped and the mix may be taken out.

N.B. For the mix to come out well, the content of the bag must be mixed all in one go. The empty bag must be left as a cover on the mouth of the mixer to prevent any dust entering.

NOVOMUR WITH BINDER

In a 150-litre cement mixer, pour:

- 20 litres water;
 - 0.5 litre "Additive" (0.5 litre bottle);
 - a 35 kg package of NOVOMUR with binder;
- Run the mixer for 5 to 7 minutes.

N.B. for the mix to come out well, the content of the bag must be mixed all in one go.

The empty bag must be left as a cover on the mouth of the mixer to prevent any dust entering.

How to apply

The product must be applied in one single coat, up to 3 cm thick. Thicker layers must be applied in multiple coats; the mortar may be applied on top of it 24 hours later. How to do it:

- Build the reinforcement, using metal bars or wooden strips, secure them with some quick-setting concrete and remove them the day after.
- Apply the product in big trowelfuls, one next to the other, and, using the trowel, cut off any protruding mortar to spread it out evenly. Do not try to push the mortar down to remove any bumps, as the pits inside the mass would break up.
- The mortar should not be applied all in one go on a large surface; it should be applied instead in 70/80 cm stretches at a time. While the product is setting, do not pad up the rendering, because the pits within the mortar would break under the weight of the layer of rendering, unless the first one has set. In addition, do not use the trowel to smoothe the rendered surface.
- Level the surface with a metal ruler, slowly moving it in a zigzag motion from the bottom up. If, once the surface has been levelled, some areas are sunken, then be very careful when adding more mortar, because the whole mass might collapse. Then, rub the surface with a wooden ruler to roughen it up, so it is ready to take the finishing layer.
- The finishing layer must not contain any concrete or any other resin-based binder, it must be made only of lime and sand. It may be applied 48 hours later on medium-thick layers, i.e. 2/3 cm, and 5-6 days later on thick layers, i.e. 4/7 cm, but it must never be applied in the cold, as it is sensitive to frost.
- Like the finishing layer, the finishing paint must not contain any resin-based binders either; it must be made only of water and lime. On buildings of special historical and architectural interest, we recommend using **VELOCOLOR**, a pre-dyed finishing layer made of sand, lime and water. If stored in a dry place, the **NOVOMUR** can last indefinitely.

