



MEGAPREM N



ABOUT THE PRODUCT

MEGAPREM N is a dry premixed mortar based on cement, hydrated lime and classified sands, developed after the most traditional and popular mix designs. Its main use is for exterior and interior rendering and plastering.

Thanks to its high compatibility, MEGAPREM N can be completed with any kind of finishing, in particular with MEGAPREM NUOVO RC9 (white), MEGAPREM RASO F140 (grey) or with the common plaster finishes MEGAPREM T600.



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FEATURES

The careful choice of the raw materials and the modern technology of Premix S.p.A. plants produce an easy-to-apply plaster which is very light, workable and smooth. The MEGAPREM N mix is completed with the natural admixtures that assure the high performance typical of the modern premixed mortars. Thanks to the water retention level of MEGAPREM N, the plastering features a good rheology, a good flowing and a perfect curing phase with no cracks nor crackles. Its thixotropy allows the laying of thick coats with no sagging and decreases the friction against the H floats or plaster knives. Thanks to its strong bonding property MEGAPREM N can be applied to any kind of masonry (bricks, concrete blocks, tuff, etc.)

MEGAPREM N is an hydraulic product that, unlike other products, hardens properly even in humid conditions and is not affected by the air moisture: therefore it is suitable not only for indoor plastering operations, but also for outdoor rendering. Indoors, MEGAPREM N is the ideal product for high-moisture locations such as kitchens, bathrooms, basements, wine cellars and garages.

MEGAPREM N features a low resistance to the diffusion of water vapour and helps eliminating the problems caused by temperature differences, such as condensate, mildew and efflorescence. The particular nature of the calcareous aggregate used in the mix – which is lighter than the sands commonly used – makes the fresh mortar made with MEGAPREM N lighter than the cement and hydrated lime based products, which is very convenient for the user.

PREPARATION OF THE SUBSTRATE

The surface must be free of dust, dirt, saline deposits etc. Any traces of oil, wax, grease, rust etc. should be removed before application. MEGAPREM N can be applied on every kind of substrates; smooth concrete surfaces should be dry and previously treated with a bonding coat like MEGAPREM 20A. Joints of different elements should be reinforced with special, alkaline resistant, fibreglass mesh, that must be laid from top downwards on a fresh layer of mortar and then thoroughly covered with the same material. To obtain high quality plastering and avoid excessive consumption of material the brickwork should be carried out with care; the spaces between the bricks should be filled up, any holes or cracks in the wall should be blocked and secondary frames should not protrude more than a few millimetres. To preserve the plumb of the wall, edge protectors or uprights should be positioned at the corners and vertical guides placed along the wall.

WORKING

For better results MEGAPREM N can be applied by using plastering machines such as PFT, M-TEC, PUTZNECHT, PUTZMEISTER, TURBOSOL, or similar machines. However, it can be easily employed by hand with the traditional trowel. It is applied in a single layer up to a thickness of 20 mm spraying from the bottom towards the top and then straightened with H floats or plaster knives passing horizontally or vertically until a flat surface is obtained. For thicknesses greater than 20 mm the plaster must be applied in consecutive layers at least 1 day apart from each other, taking care to roughen the surface of the support layer each time.

Mortar, after mixing with water, should be applied within 2 hours. Surface work on the plaster (with a float or toothed trowel etc.) can be carried out from 1.5 to 4 hours after application according to the conditions of the environment and the type of the surface.

For exteriors a plastic or wooden trowel should be used in order to obtain a homogeneous and compact surface, suitable for thick wall coverings. Where the surface is to be painted we suggest using MEGAPREM RASO F140 finishing plaster.

For interiors the finishing is carried out when the plaster has completely hardened using materials such as MEGAPREM T600 finishing plaster, MEGAPREM NUOVO RC9 smoothing plaster, mineral based wall coverings etc. A more rustic finish (for garages, basements etc.) can be obtained by finishing the material in a traditional way directly with plastic, wooden or sponge-covered trowel adding, if necessary, small amounts of the same mortar.

RECOMMENDATIONS

- Fresh plaster should be protected from the cold and excessively rapid drying. As the hardening of the plaster is based on the hydraulic setting of the cement and air setting of the lime a temperature of +5 °C is suggested as a minimum value for application to obtain proper hardening of the mortar. Below this value setting would be delayed considerably, and below 0 °C the fresh or partially hardened mortar would be broken up by frost.
- Ventilate the rooms thoroughly after application until the mortar is completely dry, avoiding sudden changes of temperature in the heating of the environment.
- In hot weather and windy days – or when applying MEGAPREM N on absorptive surfaces – dampen the walls and the ceiling before applying the mortar and protect the finished plastering.
- During summer, on surfaces exposed to the sun, the plaster should be dampened for a few days after application. In this situation, it is suggested to protect the scaffolding in order to avoid the direct sun rays on the plastered facades.
- For application on particular underlays (wood-cement panels, netting, certain types of insulating walls etc.) there may be some cracks. Our Technical Office is at your disposal to advise you on the best way to limit these problems. In any case it is advisable to consult the instructions of the supplier of the base.
- Products, which give a rough-type finish (wall covering or MEGAPREM RASO F140) show up small cracks to a lesser extent than smooth finishes (such as fine mortars etc.).
- Paints, coverings, carpets etc. should only be applied after the plaster has completely dried out and left standing for some time.
- Application in strong winds can cause the formation of cracks and “burning” of the plaster and precautions in such conditions should be taken (protection of interiors, the application of the plaster in two layers trowelling the top layer carefully each time etc.).

MEGAPREM N should only be used in its original condition without the addition of other materials.

ADVANTAGES

The advantages in using MEGAPREM N are the following:

- high quality plaster for the building contractors and their customers;
- saving in the application stage; high efficiency of the working team; shorter operation times;
- it makes up for the lack of qualified labour; it eliminates waste materials and helps keeping the construction site clean.
- It is a ready-to-use product which solves possible space problems and eliminates the difficulties in getting supplies of the traditional materials for rendering and plastering.

SPECIAL FEATURES

The lightweight of the MEGAPREM N mortar is appreciated not only when is being applied, but it gives the finished plaster a good heat-and-sound insulation performance, which makes it particularly well-suited for both private houses and offices.

MEGAPREM N is ideal for exterior applications, since it is not affected by freeze-and-thaw cycles nor by the weather conditions.

The structures plastered with MEGAPREM N have a good fire protection rate; by its nature MEGAPREM N is a fire-proof material and belongs to the class A1, according to EN 13501-1:2002; in case of fire it releases no fumes nor toxic substances. All the above-mentioned performances are the result of a careful product preparation and development in our laboratories, not only in terms of ease of application, but also in terms of greater living comfort of the rooms plastered with MEGAPREM N.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

MEGAPREM N contains special hydraulic binders that when in contact with sweat or any other bodily fluids, produce an alkaline reaction, irritating to skin. When in contact with eyes, it can cause serious damage. Wear protective gloves and goggles. In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

For further information refer to the safety data sheet.

CLEANING

Before hardening, the mortar can be removed from tools with water. Afterwards cleaning is very difficult and can only be carried out mechanically.

PACKAGING

MEGAPREM N is supplied in 25 kg paper bags on pallets protected with stretch hood, or bulk in silos.

STORAGE

3 months in a dry and sheltered place in original sealed packaging, on wooden pallets where possible.

SPECIFICATIONS CLAUSE

“Foundation plaster to be implemented with dry, premixed mortars based on cement, hydrated lime and selected calcareous aggregates, like MEGAPREM N, with compressive strength at 28 days over 3 N/mm²”.

The Premix S.p.A. Technical Office is available for on-site demonstrations and for any further practical information on the product.

MEGAPREM N

FOR PROFESSIONALS

Mixing water	26 – 30 %
Type	powder
Colour	light grey
Yield	11.5 kg/m ² for 1 cm thickness
Resistance to water vapour μ	≤ 12
Maximum diameter of aggregate	1.25 mm
Apparent bulk density	1.2 g/cm ³
Reaction to fire (EN 13501-1:2002)	class A1
Compressive strength after 28 days	> 3 MPa
Flexural strength after 28 days	> 1.4 MPa
Water retention	> 97%
Suggested thickness	10 – 25 mm
Application temperature	from + 5 °C to 35 °C
Initial setting at 20 °C	2 – 3 hours

The times shown in the above table – referred to 20° C and 60% Relative Humidity – are longer when the temperature is lower and shorter when the temperature is higher.

Warning – The above mentioned instructions and rules – although matching our experience – are merely indicative and must be confirmed by thorough practical applications. Therefore, before using this product, the prospective user must establish whether it is suitable for the planned use and he/she will take full responsibility for its use.

Premix reserves the right to make technical modifications without notice.