

INTONACO 700

DATA SHEET

Foundation bio-plaster based on natural hydraulic lime NHL 3.5 for interiors and exteriors



Interior/Exterior



Sack



Silo



By hand



Spray

Composition

INTONACO 700 is a dry mortar composed of NHL 3.5 natural hydraulic lime, crushed marble and graded limestone sands.

Supply

- In bulk in silo (available in Italy, France and Switzerland)
- Special bags with moisture protection from approx. 25kg

Use

INTONACO 700 is used as a base coat plaster to be applied by hand or machine on new and old brick and/or stone masonry.

Substrate preparation

The wall must be free from dust dirt, salt deposits etc.. Any traces of oils, fats, waxes, etc. must be removed beforehand. Any salt on the surface must be cleaned off dry beforehand, to prevent it from spreading.

Smooth concrete surfaces must be dry and previously treated with bonding mortar materials such as RINZAFFO 720. Joints of different elements must be reinforced with special, alkali-resistant, fibreglass mesh; the mesh must not be attached directly on the masonry but should be embedded in the surface area of the plaster.

To obtain high quality plastering and avoid excessive consumption of material, the brickwork should be carried out with particular care; the joints between the bricks must be filled effectively, any holes or cracks in the wall must be sealed beforehand and door and window frames must not protrude more than a few millimetres.

To maintain the plumb of the wall, corner guards or uprights should be placed at the corners and vertical guides should be placed on the walls.



Mixing

INTONACO 700 is applied by hand or using plaster sprayers, such as FASSA, PFT, PUTZKNECHT, PUTZMEISTER, TURBOSOL and the like.

When preparing by hand, add around 21-24% of clean water and then mix by hand or mechanical stirrer for no longer than 3 minutes, until obtaining a mixture of the desired consistency. After mixing with water, the mortar must be applied within 2 hours.

The plaster or render is applied from the bottom upwards and then levelled using an H-shaped or blade screed with horizontal and vertical movements so as to ensure, where required, a flat surface, or uniform plaster-render thickness. INTONACO 700 is applied in a single layer up to 20 mm thick. For thicknesses exceeding 20 mm, the plaster must be applied in a series of layers. Each layer must be applied before the underlying layer hardens; the latter must be left rough.

Surface work on the plaster (with a float or notched trowel etc.) can be carried out from 1.5 to 4 hours after application according to the ambient conditions and the type of surface.

When the plaster has completely hardened, the walls are finished by applying breathable materials such as FINITURA 750, FINITURA IDROFUGATA 756, etc.

A more rustic finish (for garages, basements etc.) can be obtained by finishing the material directly with plastic, wooden or sponge-covered float.

Warnings

- Product for professional use.
- The fresh render must be protected against frost and quick drying. As the hardening of the plaster depends on the lime setting, a temperature of +5°C is suggested as a minimum value for application and for obtaining proper hardening of the mortar. Below this value setting would be delayed considerably, and below 0°C the fresh or partially hardened plaster may be broken up by frost.
- Application in strong winds can cause the formation of cracks and "burning" of the render. In these conditions suitable precautions should be adopted (protection of indoor spaces, application of the plaster in two layers, carefully floating the surface, etc.).
- For application on particular substrates (wood-cement panels, mesh, certain types of insulating walls etc.) we cannot guarantee results with no cracks. Our Technical Office is at your disposal to advise you on the best way to limit these problems. Nevertheless, it is advisable to consult the instructions of the supplier of the substrate.
- For renovation works on different kinds of substrates and with different plaster thicknesses, please contact our Technical Department to choose the most suitable product cycle.
- Paint, coverings and wallpaper etc. must only be applied after the plaster has completely dried and cured (about 4 weeks).
- Aerate the rooms thoroughly after application until the mortar is completely dry, avoiding excessive changes in temperature in the rooms.
- Due to the nature of the raw materials used (natural sands), uniformity of colour cannot be guaranteed between different supply lots. As a result, all the material required to finish the job should be acquired from the same batch.

INTONACO 700 it must be used in its original state without the addition of foreign materials.

Storage

Keep dry for a period not exceeding 12 months. Once the product has expired, it must be disposed of in accordance with current legislation.

Quality

INTONACO 700 is subjected to accurate and constant checks in our laboratories. The raw materials used are rigorously selected and checked in accordance with reference standards.

Technical Data

Specific gravity of the powder	approx. 1,450 kg/m ³
Minimum thickness	10 mm
Aggregate grading	< 1.5 mm
Clean mixing water	21-24%
Yield	approx. 13 kg/m ² with 10 mm thickness
Shrinkage	negligible
Density of hardened plaster (EN 1015-10)	approx. 1,450 kg/m ³
Compressive strength after 28 days (EN 1015-11)	approx. 2.5 N/mm ²
Modulus of elasticity after 28 days	2,500 N/mm ²
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 8$ (measured value)
Capillary water absorption coefficient (EN 1015-18)	W0
Thermal conductivity coefficient (EN 1745)	$\lambda = 0.49$ W/m-K (tabulated value)
Radioactivity index (UNI 10797/1999)	$I = 0.06 \pm 0.02$
Radon Release Index (Naturally Occurring Radioactivity in the Nordic Country - Recommendation 2000)	$I_{\alpha} = 0.06 \pm 0.02$
NHL 3.5 natural hydraulic lime	EN 459-1
Compliant with standard EN 998-1	GP-CSII-W0

The above information refers to laboratory testing; it is possible that in practical applications on site these may differ considerably according to the conditions in which the material is applied. In any case the user must check that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.

Technical specifications regarding the use of Fassa Bortolo products for structural or fire prevention applications will only be officially valid if provided by Fassa Bortolo's "Technical Service" and "Research, Development and Quality System". If necessary, contact Technical Service in your country of reference (IT: area.tecnica@fassabortolo.com, ES: asistencia.tecnica@fassabortolo.com, PT: assistencia.tecnica@fassabortolo.com, FR: bureau.technique@fassabortolo.fr, UK: technical.assistance@fassabortolo.com).

Please note that for the aforementioned products, the assessment is required by the appointed professional, in accordance with regulations in force.