



# INTO FR-300

Fibre-reinforced base plaster based on aerial lime and portland cement.  
For indoors and outdoors



## TECHNICAL FEATURES

**INTO FR-300** is a premixed plaster, added with polypropylene fibers, based on aerial lime, hydraulic binders, selected calcareous sands and special additives, mixed together according to research by the **HERAKEM** laboratory. Thanks to its particular formulation, by mixing the **INTO FR-300** powder with clean water, a plaster with good adhesion is obtained which can be applied both by hand and with a plastering machine on almost all substrates. Furthermore, the presence of the fibres, which constitute a real reinforcement, inhibit the formation of cracks, making the product particularly suitable for making plasters subject to strong tensions.

## FIELD OF APPLICATION

**INTO FR-300** is used for the creation of base plasters, both internal and external, on seasoned tuff masonry, common bricks, thermo-acoustic and porous bricks, concrete blocks, stone, limestone, etc.

In the case of substrates made of concrete or old brick or mixed masonry, it is advisable to treat the surfaces with a first coat of **INTO FR-300** mixed with **HERALAX FLEX** diluted 1:2 with water, in order to create a "hooking bridge" and to standardize the absorptions. On smooth concrete it is necessary to pre-treat with **HERALAX GRIP**.

## PREPARATION OF THE SUBSTRATE

The substrate must be free from dust, efflorescence, release agents, greasy or oily substances. The surface of the support must be homogeneous, rough, free from loose parts. Any cavities must be filled with the same material at least 24 hours before plastering. In hot and dry climates, the substrate must be moistened before plastering and the mortar, once applied, must be protected from rapid drying.

## APPLICATION

**INTO FR-300** can be applied, both by hand, according to the classic traditional processes, mixing the product by adding about 5–5.5 liters of clean water per 25 kg bag, with a drill equipped with a low-speed mixing propeller. Either through the use of a continuous mixing plastering machine, taking care to dose the quantity of mixing water by regulating the flowmeter according to the chosen machine so as to obtain a mortar with a "plastic" consistency, which allows of projection of the mixture with a spray as uniform as possible. The application of **INTO FR-300** plaster must be done in a single layer with a maximum thickness of 30 mm, starting from the lower part of the support and working upwards. If the thickness to be reported is greater than 30 mm, **INTO FR-300** must be applied in several coats, being careful to create the various successive layers on the previous one that has not been floated. After carrying out the support preparation operations, positioning the corner protectors on the corners and preparing the metal strips or guides, start applying **INTO FR-300** in the desired thickness. After application, wait a few minutes before leveling with an H-shaped aluminum straightedge or knife, with horizontal and vertical passages until a flat surface is obtained. Remove the vertical guides, previously placed on the walls, filling the voids with the same **INTO FR-300**. The finishing of the plaster surface can be performed with a plastic, wooden or sponge trowel already a few hours after application, depending on the temperature and environmental conditions. Continue with the subsequent finishing process with our **HERARAS** skim coats according to the desired aesthetic appearance.

## CLEANING

The tools used must be cleaned with water before the mortar hardens; subsequently cleaning can only take place by mechanical removal.

## ITEM OF SPECIFICATION

Fibre-reinforced base plaster with premixed plaster for interiors and exteriors, applicable on existing or newly built brick, tuff and mixed masonry, concrete substrates, lime-based and high-strength cement, polypropylene fibres, selected sands in curves particle size and special additives, gray in colour, compliant with the **EN 998-1** standard of type **GP-CSIII-WO**, type **INTO FR-300** of **HERAKEM SRL**.



## WARNINGS

- If mixed with a drill, respect the percentage of water foreseen by not exceeding 3 minutes of mixing.
- Do not mix with a muller or cement mixer.
- Do not apply on surfaces exposed to sunlight and the action of the wind; carry out the work at ambient temperatures not lower than +5 °C.
- Wall surfaces exposed to strong solar radiation must be wet and cooled to avoid unpleasant disintegration of the binder.
- Protect the workings from solar radiation, wind or frost. Hardening of the product is based on hydraulic setting, which at low temperatures is excessively delayed resulting in abnormal hardening.
- Use the product in its original state without making additions and foreign materials.

## TECHNICAL DATA \*(at +22±1 °C and 55±5% R.H.)

Appearance	powder	Water absorption	W0
Color	gray	Vapor permeability	15÷35 μ (tabulated value)
Granulometry	0÷1,4 mm	Thermal conductivity	0,54-0,65 W/Mk (tabulated value)
Mixing water	approx. 20%	Customs heading	3824 50 90
Density of the powder product	approx. 1400 Kg/m <sup>3</sup>	Workability time	about 1 hour
Density of the wet product	approx. 1800 Kg/m <sup>3</sup>	Permissible application temperature	from +5°C to +35 °C
Density of the hardened product	approx. 1550 Kg/m <sup>3</sup>	Chloride content	absent
Adhesion	0,3 N/mm <sup>2</sup> FP:B	Reaction to fire	class A1
Compressive strength after 28 days	approx. 4 N/mm <sup>2</sup>	Freeze/thaw durability	good
Flexural strength after 28 days	approx. 2 N/mm <sup>2</sup>		

<b>Consumption</b>	<b>approx. 14 Kg/m<sup>2</sup> per cm of applied thickness</b>	<b>Packaging</b>	<b>25 kg bag</b>
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### PRODUCT FOR PROFESSIONAL USE ONLY

All the data and indications given in this technical data sheet, although resulting from laboratory tests carried out and from our direct application experiences, due to the infinite number of variables linked to the construction site conditions, are to be considered, in any case, purely indicative. Therefore, before applying the product, the user is required to establish whether it is suitable for the use envisaged by him, in the specific hygrothermal and application conditions foreseen at the time of use and, in any case, he assumes all responsibility for it. We are not liable for damage to people or things deriving from improper use of the product. We reserve the right to modify the data contained therein as a result of improvements and technical progress.