

# BIO-INTONACO DI FONDO

## DATA SHEET

Bio base coat plaster/render, cement-free, made from air lime and eco-pozzolanic binders, for interiors and exteriors



Interior/Exterior



Sack



By hand



Spray

## Composition

BIO-INTONACO DI FONDO is a dry mortar made from special air lime, eco-pozzolanic binders and graded limestone aggregate from the best quality carbonate rocks. The lime used to make this product is classified as compliant with standard EN 459 and is extremely pure with non-measurable levels of heavy metals. The extreme fineness of the lime used gives the mixture unique workability, while its high specific surface area guarantees a more effective pozzolanic reaction over time. The intrinsic properties of the lime, the high purity of the raw materials used and the special formulation ensure excellent breathability without the addition of soluble salts, which may contribute to the chemical-physical degradation of the mortar.

## Supply

- Special bags with moisture protection from approx. 25kg

## Use

BIO-INTONACO DI FONDO is used as a base coat plaster for application by hand or machine on brick and/or stone walls, both old and new.

## 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 treated beforehand with primers, such as BIO UNDERCOAT.

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 ensure the walls are plumb, use corner guards or screeds on the corners and vertical guides on the walls.

## Mixing

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

For application by hand, add the product to the corresponding amount of clean water (as specified in the Technical Data) and mix by hand or using a mechanical stirrer for no more 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. BIO-INTONACO DI FONDO 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.

The plaster/render can be worked (floating, scoring, etc.) from two to six hours after application, depending on the environmental conditions and the type of surface.

The walls are finished by applying, when the plaster/render has completely hardened, breathable materials such as BIO-INTONACO FINE. 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.
- Always consult the safety data sheet before 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.
- 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.

**BIO-INTONACO DI FONDO 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

BIO-INTONACO DI FONDO 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. 1,300 kg/m <sup>3</sup>
Minimum thickness	10 mm
Aggregate grading	< 1.5 mm
Clean mixing water	25-27%
Yield	approx. 12.5 kg/m <sup>2</sup> with 10 mm thickness
Density of hardened plaster (EN 1015-10)	approx. 1,450 kg/m <sup>3</sup>
Compressive strength after 28 days (EN 1015-11)	> 2.5 N/mm <sup>2</sup>
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 12$ (measured value)
Capillary water absorption coefficient (EN 1015-18)	W0
Thermal conductivity coefficient (EN 1745)	$\lambda = 0.55$ W/m·K (tabulated value)
Reaction to fire (EN 13501-1)	EUROCLASS A1
Compliant with standard EN 998-1	GP-CSII-W0
Recycled/recovered/by-product content	* CERTIFICATION OF RECYCLED/RECOVERED/BY-PRODUCT MATERIAL CONTENT
	CP DOC 262 REGULATION
	CERTIFICATE No. P684
The performance values listed above are obtained by mixing the product with 26% water in a controlled temperature and humidity environment (20±1°C and 60±5% RH).	

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](mailto:area.tecnica@fassabortolo.com), ES: [asistencia.tecnica@fassabortolo.com](mailto:asistencia.tecnica@fassabortolo.com), PT: [assistencia.tecnica@fassabortolo.com](mailto:assistencia.tecnica@fassabortolo.com), FR: [bureau.technique@fassabortolo.fr](mailto:bureau.technique@fassabortolo.fr), UK: [technical.assistance@fassabortolo.com](mailto: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.