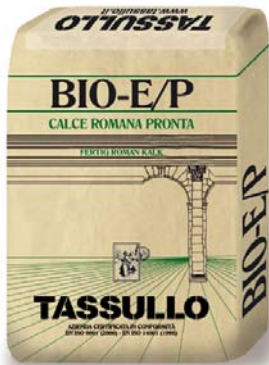


MORTAR**Ready-to-use, made with BIO-E**

BIO-E/P is a ready-to-use mortar made with BIO-E natural hydraulic lime and dolomite inert filler with a selected granulometric curve and maximum granulometry of 4 mm., suitable for making rough-coat mortar, plaster mortar, filler mortar and buffer mortar and for brick beds.

Its binder purity and absence of cement and organic additives make instant BIO-E/P mortar ideal for construction work which follows the tenets of eco-construction.

BIO-E/P conforms to the UNI EN 998-1 regulations regarding "Specifications for mortar for masonry – interior and exterior plaster mortars" and possesses the CE conformity marking in accordance with applicable law.

Comes in: 30 kg. bags

FIELD OF APPLICATION

BIO-E/P can be applied on any surface that is absorbent, free of impurities, dust, salt deposits, uneven areas, oil, mildew, organic material, etc. It allows for the creation of interior and/or exterior plasters on vertical walls or ceilings in 15/20 mm. layers along with buffers, filler and brick beds.

BIO-E/P provides ease and speed of preparation and consistency of the mixture as opposed to the use of traditional plaster mortars made on-site.

MIXTURE PREPARATION

BIO-E/P is to be mixed only and exclusively with water in the ratio of 4.5 litres/bag.

The mixture may be made by hand, by means of a concrete mixer, horizontal screw feeder or by means of an automatic system that subsequently pumps the mixture. Avoid mixing times greater than 3 minutes.

APPLICATION

BIO-E/P is applied by hand or with automatic systems suitable for traditional mortars with a maximum granulometry of 4 mm. It is to be finished with a straight edge and plastic trowel to make the applied material compact and uniform and to avoid fissures in the moulding phase. Once hardened, it can handle any type of two-coat finish (lime putty, TASSULLO TA01, TA02, TF01 Stabiliser ecc.) and successive TASSULLO Coloured Finishings or silicate finish or paint, ceramic or natural-stone tiles, etc.

For its use as an interior or exterior plaster, it is recommended to apply an initial coat of **BIO-E/P** with a slight excess of water in the mix (rough coat) so as to prepare the masonry for a subsequent coat of plaster after approximately 12/24 hours. Apply in successive 15-20 mm. thick coats, respecting the wait time between one application and the next and making use of reinforcing meshes in the case of high thicknesses and very-uneven masonry.

TASSULLO MATERIALI S.r.l.

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Use of this product implies that the customer has verified its suitability for the particular use it is to be employed for, and assumes all responsibility deriving from said use. The data reported here has been obtained by laboratory measurements. TASSULLO MATERIALI S.r.l. reserves the right at any moment and without prior notice to make any changes in the technical data.

MORTAR**Ready-to-use, made with BIO-E****WARNINGS**

Preparation of the surface: prepare the surface for the application by removing dust, salt deposits, uneven areas and parts coming-off, mildew, soot, organic material, etc.

Wet surfaces: do not apply on surfaces impregnated with water to avoid insufficient adhesion.

High-absorbency surfaces: in the case of surfaces with high water absorbance, it is good practice to preliminarily wet the surface and to take all necessary precautions to avoid too-rapid drying of the mortar.

Low-absorbency surfaces: application on concrete or surfaces with little or no water-absorbance capacity must be made after applying the adhesion promoter TASSULLO TA02/TA04 (to be applied with a plastering machine or by hand) as a rough coat and adhesion bridge.

Protection from freezing: do not apply at temperatures lower than 5°C. In cold weather it is a good idea to adequately protect the mortar from freezing; the use of antifreeze additives which may hinder workability of the mortar is, however, not recommended.

High temperatures and ventilation: in the case of high temperatures and significant ventilation, take all necessary precautions to avoid a too-rapid drying of the applied product.

Thicknesses greater than 3 cm: for thicknesses greater than 3 cm., especially where there are changes from one section to another or surface unevenness, it is recommended to use fibreglass or zinc plated-steel meshes and to make plaster for successive layers, waiting for the previous layer to dry first.

TECHNICAL DATA

Granulometry (UNI EN 1015-1)	from 0 to 4 mm
Volumic mass (UNI EN 1015-10)	1750 - 1850 Kg/m ³
Water addition	approx. 0.15 l/Kg (approx. 4.5 l/bag)
Yield (for plaster)	approx. 18 Kg/(m ² x cm)
Compression strength (UNI EN 1015-11)	Class CS III (3,5 - 7,5 N/mm ²)
Vapour diffusion resistance (UNI 9233)	μ = 12
Thermal conductivity (value tabulated according to EN 1745:2002 Prosp. A12)	λ = 0.93 W/(m x °K)
pH	> 10.5
Fire reaction class	A1

TECHNICAL SPECIFICATIONS

Ready-to-use TASSULLO BIO-E/P mortar made exclusively with natural hydraulic lime conforming to UNI EN 459-1, class NHL5, and possessing the CE conformity marking in accordance with applicable law; selected inerts with a granulometry of between 0 and 4 mm., free of cement and synthetic additives, with vapour diffusion resistance (μ) of 12, class CS III of compression strength (classification per UNI EN 998-1 regulations), specific weight of 1750-1850 Kg/m³, pH > 10.5, suitable for making two-coat plaster for interiors and exteriors, filler, buffering and brick beds.

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