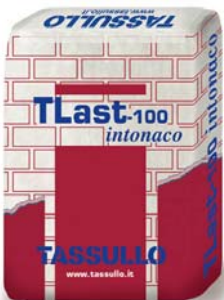
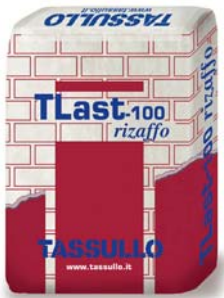


REPAIR AND RESTORATION PRODUCTS

dehumidifying, macroporous, made with FEN-X/A



TLAST-100 is a macroporous, dehumidifying cycle of products for the repair and restoration of masonry deteriorated by the combined effects of rising damp and a large presence of salts.

TLAST-100 is a repair and restoration cycle made up of the following products:

- **TSAL/TSAL vp**: anti-salt treatment (recommended in the case of structures with a significant salt content);
- **TLAST-100 ROUGH COAT**: ready-to-use rough coat made with FEN-X/A natural hydraulic lime and selected inert dolomite from 0 to 2 mm.;
- **TLAST-100 PLASTER**: macroporous plaster made with FEN-X/A natural hydraulic lime and selected light inert substances from 0 to 3 mm.

TLAST-100 PLASTER is in conformance with 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.

It also satisfies the requirements laid out in the WTA guidelines regarding the treatment of masonry subject to rising damp and in the presence of salts.

Comes in: **TLAST-100 ROUGH COAT** in 30 Kg. bags

TLAST-100 PLASTER in 20 Kg. bags

FIELD OF APPLICATION



TLAST-100 is a dehumidifying cycle recommended for the repair and restoration of any masonry structure, new or old, affected by rising damp and salts, which require the use of highly-permeable products which are capable of discharging water and which have low absorbency by capillarity, a very low water-soluble salt content and a lack of chemical reactivity upon contact with sulfates.

The macroporous structure of **TLAST-100 PLASTER** guarantees high permeability along with a top-level ability to discharge and evaporate water absorbed by the material, properties which remain unaltered by the barrier effect provided by the anti-salt treatment and by the preliminary rough coat applied prior to the macroporous plaster.

TLAST-100 can be applied on both interior and exterior masonry.

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OPERATING MECHANISM



WHAT OCCURS WITH NORMAL PLASTER

- The rich-in-salts water rises by capillarity inside the wall and the plaster. Due to its subsequent evaporation, the salts are deposited in the plaster's micropores.
- The salt crystallises inside the micropores, increasing their volume and exerting pressure on the interior walls of the pores, which leads to the breaking-up of the plaster itself.

HOW MACROPOROUS PLASTER WORKS

- Macroporous plaster facilitates water evaporation, allowing for crystals to grow inside the macropores with the resulting lack of stress and microstructural damage.

MIXTURE PREPARATION

TLAST-100 is to be mixed only and exclusively with water in the ratio of approximately 6.5 litres/bag for **TLAST-100 ROUGH COAT** and approximately 7 litres/bag for **TLAST-100 PLASTER**. The mixture may be made by hand, with a concrete mixer, screw-feed mixer or plastering machine for ready-to-use plaster. Avoid mixing times of greater than 3 minutes.

APPLICATION

- Sandblast the surface to be worked on with TASSULLO TSAL or TSAL VP type anti-salt products, per the methods delineated on the product's technical sheet;
- Apply (after approx. 12 hrs.) a rough coat made with **TLAST-100 ROUGH COAT** in order to regularise the surface, if it is discontinuous, and to create a uniform adhesion bridge for the subsequent application of the macroporous, dehumidifying plaster. Apply in a 5-6 mm. thickness by hand or with a plastering machine, covering the wall without regularising the surface;
- Apply (after 12-24 hrs.) **TLAST-100 PLASTER**, macroporous and dehumidifying, in thicknesses ranging from a minimum of 20 mm. up to 30-40 mm., in one, sole coat. In the case that the masonry requires greater thicknesses of plaster, execute a preliminary regularisation with T30V or another natural hydraulic lime mortar before performing the entire cycle. **TLAST-100 PLASTER** can be applied by hand or by machine, taking care not to compact the product on the wall, regularising the surface with a straight-edge without "troweling";
- Apply a permeable skim-coat smoothing product made with natural hydraulic lime such as TASSULLO TA00/01/02/04, upon adequate curing of the plaster;
- Apply TASSULLO mineral COLOURED FINISH or another finish or permeable paint.

WARNINGS

Surface preparation: preparation of the surface plays a vital role in the success of any dehumidifying work performed with permeable, macroporous plaster. In the case of its application on old and deteriorated masonry, it is recommended to clean the structure by sandblasting to remove dust, coming-off bits, salts, mildew, soot organic materials or growth and residues of pre-existing plaster, and to substitute any bricks and/or bedding mortar which are crumbling and rich in salts.

Protection against freezing: do not apply **TLAST-100** at temperatures lower than 5°C. In cold weather it is a good idea to properly protect the mortar from freezing; antifreeze additives, which may hinder workability of the mortar, are not however recommended.

High temperatures: in the case of high temperatures, take all necessary precautions to prevent too-rapid drying of the product.

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.

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TECHNICAL DATA

	TLAST-100 ROUGH COAT	TLAST-100 PLASTER
Granulometry (UNI EN 1015-1)	from 0 to 2 mm.	from 0 to 3 mm.
Water addition	approx. 0.21 l/Kg (approx. 6.5 l/bag)	approx. 0.35 l/Kg (approx. 7 l/bag)
Volumic mass (UNI EN 1015-10)	1400 Kg/m ³	800 - 1000 Kg/m ³
Yield	approx. 6 Kg/m ²	approx. 9 Kg/(m ² x cm)
Compressive strength (UNI EN 1015-11)	/	Class CS II (1.5 - 5 N/mm ²)
pH	> 10.5	> 10.5
Water absorbence by capillarity in 24 hrs. (UNI EN 1015-18)	/	C ≥ 0.3 Kg / m ²
Water penetration after absorbence-by-capillarity test (UNI EN 1015-18)	/	h ≤ 5 mm
Total porosity	35%	70%
Vapour diffusion resistance (μ) (UNI 9233)	10	7 - 8

The technical data reported here was obtained with mortar prepared in the laboratory through mixing in a mixer in conformance with EN 196-1 regulations for 15 seconds at low speed followed by 5 seconds of mixing at high speed.

TECHNICAL SPECIFICATIONS

TASSULLO TLAST-100 macroporous, dehumidifying repair-and-restoration product cycle, made with natural hydraulic lime in conformance with UNI 459-1 regulations, classified NHL 5 and possessing the CE conformity marking in conformance with applicable law, with selected inerts, high permeability and chemical inertia (resistance to sulfates), geared towards the immobilisation of structural salts and the maintenance of the evaporative ability of the masonry along with the properties and functionality proper to dehumidifying plaster and the elimination of damage by means of salt crystallisation and surface hygroscopy.

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