

## GROUT

light, fibre-reinforced, made with FEN-X/A



**TBL** is a light, fibre-reinforced grout made with FEN-X/A and selected light mineral inerts which is suitable for making structural reinforcements for stone vaults or wood floors through coupling with reinforcement meshes.

Its mineralogical properties, lack of chemical reactivity and low water-soluble salt content make this product especially recommended for the restoration and static improvement of structures where it is fundamentally important to contain overloads resulting from consolidation.

**TBL** is available in M3 and M2 strength classes, with reference to D.M. 20/11/87.

**Comes in:** 20 kg. bags

### FIELD OF APPLICATION

**TBL** is used for the making of reinforced grouts for structural consolidation in cases where overload requirements are equally important as structural/mechanical ones. TBL allows for the making of consolidation screeds or coverings with a minimum thickness of 4 cm., to be made on the extrados of vaults or floor slabs in stone, masonry or wood.

TBL's high-level adhesion allows for optimal adhesion on low-absorbency surfaces, and on all types of stone masonry in general.

**TBL** is compatible with the use of electrically-welded metallic meshes, meshes in plastic or alkaline-resistant fibreglass. The pH value of the mixture is such as to protect the metallic framework against corrosion.

### MIXTURE PREPARATION

**TBL** is to be mixed only and exclusively with water in the ratio of approximately 10 litres/bag. The mixture may be made by hand, by means of a concrete mixer, screw feeder, or plastering machine for ready-to-use plaster which does not have a nozzle. Interrupt mixing as soon as a uniform mixture has been obtained. Prolonged mixing times (greater than 3 minutes) may lead to the incorporation of air and a resulting deterioration of the structural properties of the material.

### APPLICATION

The mixture may be applied by hand or by means of a nozzle-free plastering machine, and extended by means of a rake, straight-edge, plastering trowel, etc. Finish as needed with TASSULLO TA01/02 smoothing products.

### WARNINGS

Surface preparation: prepare surfaces for application by removing dust, incrustations, salt deposits, unstable and crumbling bits, mildew, organic material, soot, etc.

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

High-absorbency surfaces: in the case of structures with high water-absorbency, it is good practice to adopt all necessary precautions to prevent too-rapid drying of the mortar.

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

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

**TASSULLO MATERIALI S.r.l.**

via Nazionale, 157 38010 Tassullo (TN)  
Tel: 0463/662100 Fax: 0463/662138  
www.tassullo.it - areatecnica@tassullo.it



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.

**GROUT**

light, fibre-reinforced, made with FEN-X/A

**TECHNICAL DATA**

Granulometry (UNI EN 1015-1)	from 0 to 4 mm
Water addition	approx. 0,5 l/Kg (approx. 10 l./bag)
Volumic mass (UNI EN 1015-10)	approx. 950 Kg/m <sup>3</sup>
Adhesion to brick (UNI EN 1015-12)	> 0.2 N/mm <sup>2</sup>
Compressive strength (UNI EN 1015-11)	Class M3: ≥ 5 N/mm <sup>2</sup> Class M2: ≥ 8 N/mm <sup>2</sup>
Elastic compression module (UNI 6556)	< 6000 Mpa
Estimated thermal conductivity (λ)	approx. 0.35 W/(m x °K)
Vapour diffusion resistance (UNI 9233)	μ = 8
pH	> 10.5
Fire reaction class	A1

The technical data has been obtained by means of a mortar prepared in the laboratory by mixing in a mixer in conformance with EN 196-1 regulations for 75 seconds at low speed.

**TECHNICAL SPECIFICATIONS**

*TASSULLO TBL light fibre-reinforced grout for structural reinforcement, made with natural hydraulic lime in conformance with UNI EN 459-1 regulations, classified NHL 5 and possessing the CE marking per applicable law and with perlite as a selected light inert substance, free of cement and synthetic additives, with adhesion to brick greater than 0.2 N/mm<sup>2</sup>, elastic compression module less than 6000 N/mm<sup>2</sup>, permeability (μ) of 8, pH > 10.5 and A1 fire reaction class, suitable for making structural reinforcement through coupling with electrically-welded metallic meshes or meshes in plastic or fibreglass.*

*The job must require the formation of a consolidation screed with a minimum thickness of 4 cm., to be made on the extrados of the vault or floor slabs in stone, masonry or wood upon the removal of dust, unstable bits, salt deposits, oils, etc. from the surface in question, taking care to prevent too-rapid drying of the material in the case of high temperatures or absorbent surfaces. Where necessary, after cleaning and before making the reinforcing grout, remove any coming-apart or powdery connecting mortar and restore it by means of a mortar made with NHL 5 natural hydraulic lime, per UNI EN 459-1 regulations.*

**TASSULLO MATERIALI S.r.l.**

via Nazionale, 157 38010 Tassullo (TN)  
Tel: 0463/662100 Fax: 0463/662138  
www.tassullo.it - areatecnica@tassullo.it



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.