



Inorganic systems

## B-STRUCTURA 15F

**B-STRUCTURE 15F**; Fibre-reinforced structural mortar, pre-packaged powder for internal and external use according to UNI EN 998-2.

**B-STRUCTURE 15F**; consisting of a mixture pure calcareous sand, screened with continuous grain size arc from 0 to 1.4 mm. The binder consists of SAINT-ASTIER Pure NHL 5 Natural Hydraulic Lime, according to standard UNI EN 459-1 and Pozzolan. The white lime NHL 5, produced by baking siliceous limestones at temperatures below 1250°C and reduced in powder by only the breakdown of calcium oxide.



DEHUMIDIFYING



SLAG FREE



RADON FREE



RESTORATION



BREATHABLE



RESISTANT



VERSATILE



RECYCLABLE



WITHOUT ASHES



ANTIBACTERIAL



NHL 5

NHL 5



HIGHLY  
ADHESIVE



QUICK



LIGHT



REVERSIBLE



EASY



POLLUTION  
RESISTANT



CONSOLIDATING  
TREATMENT

## FEATURES

Thanks to the strong characteristics of mechanical strength, cohesion and adhesion to the substrates, **B-STRUCTURE 15F**; particularly suitable for structural consolidation with meshes (fiberglass, carbon, steel), FRP composite materials and helical metal bars or in FRP.

## FIELDS OF APPLICATION

**B-STRUCTURA 15F** can be applied directly on vertical and horizontal surfaces made up of bricks of solid, perforated, lightweight bricks, mixed brick, stone and tuff. For all those compact or poorly absorbent surfaces (solid blocks or concrete cables and expanded clay pebbles, concrete block cells, lime or cement based substrates, reinforced concrete structures, magnesium wood).

### **B-STRUCTURE 15F; ideal for:**

- consolidation operations;
- structural plasters;
- FRCM;
- cuci scuci interventions;
- pointing of the joints with simple or reinforced mortar;
- formation of vertical masonry.

## APPLICATION

**B-STRUCTURE 15F** can be applied manually with float and trowel or mechanically by screw plastering machine (stator/rotor D6-3). In the case of application with a plastering machine the pipe length must not exceed 20 m and the prevalence must not exceed 6 m. **B-STRUCTURE 15F** is pre-packaged and is mixed only with 5.25 l of water per bag depending on the desired consistency.

The application thickness should not exceed 2/3 cm per coat. When applying multiple layers, wait until the previous one has lost a good deal of the mixture water and the surface is not compact. To make planar surfaces, proceed to the leveling with an aluminum straight edge and finish them floating with plastic/wooden float or scraping by planing.

If the previously applied **B-STRUCTURA 15F** layer is already dry, you will proceed with adequate wetting of the substrate before applying the next layer. This operation will allow to keep the new layer workable and will ensure perfect adhesion to the underlying layer.

## ITEMS SPECIFICATIONS

Execution of structural reinforcement of masonry, repointing of the joints of the bed mortars of the curtain walls, of the consolidation of vaulted structures, of masonry mortars, with **B-STRUCTURA 15F** mortar; fibre-reinforced, pre-packaged powder for internal and external use, according to standard UNI EN 998-1. Mortar for general purposes (G), with the following control parameters: mixture pH; 12, compression resistance (**EN 1015-11**): 15 N/mm<sup>2</sup>, water vapour diffusion coefficient (EN 1015-19), adhesion (N/mm<sup>2</sup>; fire reaction (EN 13501-1): A1 Class.

## TECHNICAL DATA

PRODUCT TYPE	<b>Mortar for general purposes (G) for indoor and outdoor use complying with the standard UNI EN 998:2</b>
GRAIN SIZE CURVE (EN 1015-1)	<b>0 - 1.4 mm</b>
pH OF THE MIXTURE	<b>&gt; 12</b>
FRESH MORTAR APPARENT DENSITY (EN 1015-6)	<b>1855 kg/m<sup>3</sup></b>
DRIED MORTAR APPARENT DENSITY (EN 1015-10)	<b>1750 kg/m<sup>3</sup></b>
COMPRESSIVE STRENGTH (EN 1015-11)	<b>CSIV-15 N/mm<sup>2</sup></b>
FLEXURAL STRENGTH (EN 1015-11)	<b>4.10 N/mm<sup>2</sup></b>
ADHESION (EN 1015-12)	<b>1 N/mm<sup>2</sup> FP-B</b>
WATER VAPOUR PERMEABILITY COEFFICIENT (EN 1015-19)	<b><math>\mu &lt; 20</math></b>
FLAME RESISTANCE (EN 13501-1)	<b>A1 Class</b>
MIXING WATER	<b>5.25 l for bag</b>
CONSUMPTION	<b>15kg/m<sup>2</sup> for about 1 cm thickness</b>
THICKNESS PER COAT	<b>2 cm</b>
PACKAGING	<b>25 kg bags</b>
PALLET	<b>48 bag, 1200 kg</b>
STORAGE	<b>6 months in original packaging in dry place..</b>
APPLICATION TEMPERATURE	<b>from+5°C to 32°C</b>
REACH CLASSIFICATION	<b>See SDS</b>