

# Unisan

## Dehumidifying structural, reinforcing, grey cement plaster



A composite mortar that is fibre-reinforced, consolidating, dehumidifying, grey in colour and utilised for the structural restoration of crumbling old or monumental masonry. It contains no substances that are potentially harmful to masonry and is composed of NHL 3.5 natural hydraulic lime and hydraulic binders free from soluble salts, along with silicas with pozzolanic activity, selected siliceous-calcareous aggregates, specific shrinkage-reducing agents and resistant alkaline READY MESH fibres that confer high flex-traction whilst increasing the performance of the mortar's fracture energy. In conjunction with ARMAGLASS STRUCTURA fibreglass mesh, it is ideal for the structural restoration of old walls or crumbling constructions.

**CUSTOMS CODE:** 3824 5090

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** Gray

**PACKAGING AND DIMENSIONS:** Bag 25 kg - Pallet: 50 x (Bag 25 kg)

### OBTAINED CERTIFICATIONS AND REGULATIONS



### FIELDS OF APPLICATION

Construction of plasters and reinforced slabs in interventions of restoration, construction of plaster and dehumidifying coatings with high performance, bedding of bricks and modular elements.

### ALLOWED SUPPORTS

Bricks - Tuff - Mixed walls (bricks and stones) - Brickworks - Stone walls

### PREPARATION OF SUPPORTS

The surfaces should be clean and free of any soiling, crumbling and non-adhering parts, dust, etc., conveniently saturated with water until they reach the condition of "saturated dry surface". In the case of structural reinforcing slabs, you will need to proceed with applying an appropriate reinforcing electrowelded mesh, to be fixed with PROFIX, Grout Micro-J, Repair Tix G2 or Syntech IC 55.

## MODE OF USE

Pour about 2/3 of the mixing water into the mixer, add Unisan and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. The mixing water should be about 12-14% of the weight of the bag. After mixing is completed wait a few minutes before applying. Apply the product by plastering trowel and brick trowel, or preferably with plastering machine (type PFT model G4). Do not apply in case of direct exposure to sunlight or excessive ventilation. Cure the protection and the prolonged moist hardening, of exposed surfaces.

## APPLICATION METHODS

Brick trowel - Finishing trowel - Plastering machine - Straight edge

## TOOL CLEANING

Water


## KEY FEATURES

↔ Max. recommended thickness: 40 mm

→← Min. recommended thickness: 20 mm


 Nonflammable


 Shelf-life: 12 months

 Use wearing protective gloves

 Maximum diameter of aggregate: 1.5 mm

 Mix with water: 14 %

 Pot-life: 60 min

 Temperature of use: +5 / +35 °C

## TECHNICAL SPECIFICATIONS

EN 12190

Compressive strength > **20 N/mm<sup>2</sup>**

UNI EN 1015-19

Breathability **11 μ**

UNI EN ISO 14021:2021

Content of post-consumer recycled material **0.15 %**

UNI EN ISO 14021:2021

Total recycled content **3.42 %**

EN 13501-1

Reaction to fire **A1**

Water/binder ratio **0.45**

UNI EN 1015-18

Capillary absorption **0.14 kg•h<sup>0.5</sup>/m<sup>2</sup>**

UNI EN 1015-12

Bonding force > **0.9 N/mm<sup>2</sup>**

EN 12190

Flexural strength > **4 N/mm<sup>2</sup>**

UNI EN ISO 14021:2021

Content of pre-consumer recycled material **2.17 %**

UNI EN ISO 14021:2021

By-product recycled material content **1.10 %**

EN 13412

Static elastic modulus **11700 N/mm<sup>2</sup>**

UNI EN 12667

Thermal conductivity **0.30 W/mK**

UNI EN 1015-6

Density **1700 kg/m<sup>3</sup>**

pH > **12**

## CONSUMPTION

Approximately 15 kg/m<sup>2</sup> of Unisan for every centimetre of thickness to be implemented (approximately 1500 kg per cubic metre).



## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.

## PHOTO GALLERY



## ADDITIONAL CONTENT



## WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: [www.azichem.com](http://www.azichem.com). The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: [www.azichem.com](http://www.azichem.com).

It is forbidden to dispose of the product and/or packaging in the environment.

