

Family
Rinfor

Type
High-performance plasters and skim coats

Product Lines
• **Building**
• **Opus**

Functional Categories
• **Structural strengthening of masonry in historic buildings**
• **Masonry plastering with plasters and skims**
• **Renewal of wet masonry with waterproofing plasters**

Components
Single-component

Appearance
Powder

RNF.0199

UNISAN

Dehumidifying structural,
reinforcing, grey cement plaster

Customs Code

3824 5090

Packaging

- Bag 25 kg
- Pallet: 50 x (Bag 25 kg)

Application

- Brick trowel
- Finishing trowel
- Plastering machine
- Straight edge

Certifications and legislations



EN 1504-3

Products and systems for the protection and repair of concrete structures - Structural and non-structural repair



EN 998-1

Specification for Mortar for Masonry - Mortars for renovations (R)

General description

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.

General features

Unisan does not contain substances potentially harmful to masonry and is characterized by balanced mechanical performance which is particularly favorable for consolidation interventions in the field of period masonry. It combines in a single product the marked characteristics of mechanical resistance to compression (> 20 MPa) and flexion (> 4 MPa), with the dehumidifying qualities of a breathable macroporous plaster. Unisan therefore makes it possible to consolidate masonry using the "reinforced slab with mesh" technique using a single product that restores and consolidates at the same time. Mixing the Unisan mortar with the Bond Plus polymeric emulsion instead of just water (proportions: 1 part Bond Plus with 2 parts WATER) represents the two-component version of the product, which is characterized by greater adherence of the mortar to the substrate. The polymer present in the Bond Plus aqueous emulsion protects the mortar during its curing phase, especially when it is applied in hot and/or windy and/or arid climates.

Dosage

Approximately 15 kg/m² of UNISAN for every centimetre of thickness to be implemented (approximately 1500 kg per cubic metre).

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.



www.azichem.com

Updated: **20/03/2023**
General sales conditions and legal
notices on
www.azichem.com/disclaimer

Basic features

 Max. recommended thickness: 40 mm	 Maximum diameter of aggregate: 1.5 mm
 Min. recommended thickness: 20 mm	 Mix with water: 14 %
 Nonflammable	 Pot-life: 60 min
 Shelf-life: 12 months	 Temperature of use: +5 / +35 °C
 Use wearing protective gloves	 Available colours Gray

Technical specifications

<i>Bonding force (UNI EN 1015-12):</i> > 0.9 N/mm ²
<i>Breathability (UNI EN 1015-19):</i> 11 μ
<i>Capillary absorption (UNI EN 1015-18):</i> 0.14 kg•h ^{0.5} /m ²
<i>Compressive strength (EN 12190):</i> > 20 N/mm ²
<i>Density (UNI EN 1015-6):</i> 1700 kg/m ³
<i>Flexural strength (EN 12190):</i> > 4 N/mm ²
<i>pH:</i> > 12 _
<i>Reaction to fire (EN 13501-1):</i> A1 _
<i>Static elastic modulus (EN 13412):</i> 11700 N/mm ²
<i>Thermal conductivity UNI EN 12667:</i> 0.30 W/m*K
<i>Water/binder ratio:</i> 0.45 _

Tools cleansing

- Water

Applicable on

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

Substrate preparation

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, REPAR TIX G2 or SYNTECH IC 55.

Instructions for 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.

Storage and preservation

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.



Warnings, Precautions and Ecology

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. 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.

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

UNISAN is produced/distributed by



Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy
info@azichem.com Tel. +39 0376.604185 /604365 Fax +39 0376 604398



www.azichem.com

Updated: **20/03/2023**
General sales conditions and legal
notices on
www.azichem.com/disclaimer