

## Caleosana

Insulating, macroporous, dehumidifying, anti-condensation plaster



A plaster for interiors and exteriors that is macroporous, in respect of green building standards, with high thermal insulation and anti-condensation performance, having a base of natural hydraulic lime NHL 3.5, siliceous aggregates, metakaolin, granular expanded silica with an extremely high volume of interconnecting voids and a low elastic modulus. Its particular characteristics make it suitable for dehumidification, for heat and humidity treatments on buildings and walls, in ecological building operations and in the restoration of historical buildings and monuments.

**CUSTOMS CODE:** 3824 5090

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** Light gray

**PACKAGING AND DIMENSIONS:** Bag 25 kg

### OBTAINED CERTIFICATIONS AND REGULATIONS



### FEATURES AND BENEFITS

Caleosana does not contain traces of resins, solvents or radioemissive aggregates.

### FIELDS OF APPLICATION

Vintage and new construction masonries subject to rising damp, condensation, mildew. Recommended mainly for thermo-insulating anti-condensation rehabilitation of internal perimetral masonry and underground areas in general.

### ALLOWED SUPPORTS

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

### PREPARATION OF SUPPORTS

Removal of degraded plaster up to the ceiling. Cleaning the resulting supports, including the removal of salt deposits; thorough dedusting and saturation with water, to obtain the condition "saturated with dry surface".



## MODE OF USE

In the presence of salt efflorescence brush thoroughly and spray the saline inhibitor Sanareg. If necessary, to increase plaster adhesion, apply a breathable anchoring scratch coat made with the specific lime-based preparation Untersana. Prepare the plaster by adding Caleosana to the mixing water, continue to mix until the desired mixture and the complete elimination of lumps is obtained. Apply with float and trowel or plastering pump. It is recommended to apply a minimum thickness of cm 2.5. Regularisation of the plastered surfaces with Sanastof lime-based ecological building fine mortar. Untersana rendering, applied by "spraying", must provide a rough, corrugated surface, designed to promote the bonding of the subsequent plaster, which must be applied no later than 2-3 days. For thicknesses greater than 2.5 cm, to improve the anti-cracking capacity, ensure the Armaglass 160 mesh is inserted. Protect fresh surfaces from direct exposure to the sun, the rain and the wind, cure the prolonged moist hardening.

## APPLICATION METHODS

Finishing trowel - Brick trowel - Plastering machine - Straight edge

## TOOL CLEANING

Water

## KEY FEATURES



Maximum diameter of aggregate: 2 mm



Mix with water: 22 - 23 %



Pot-life: 90 min



Shelf-life: 12 months

## TECHNICAL SPECIFICATIONS

*UNI EN 1015-11*

Compressive strength > **5 N/mm<sup>2</sup>**

*UNI EN 1015-19*

Permeability to water vapor < **10 μ**

*UNI EN 13057*

Capillary absorption **0.83 kg•h<sup>0.5</sup>/m<sup>2</sup>**

*UNI EN 1015-12*

Bonding force **0.40 N/mm<sup>2</sup>**

*EN 13412*

Static elastic modulus < **5000 N/mm<sup>2</sup>**

*UNI EN 1015-11*

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

*EN 1745*

Thermal conductivity **0.2 W/mK**

*UNI EN 1015-6*

Density **1075 kg/m<sup>3</sup>**

*EN 13501-1*

Reaction to fire **A1**

## CONSUMPTION

Approximately 9 kg/m<sup>2</sup> of Caleosana for every centimetre of thickness to be implemented (approximately 900 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. Store the product at a temperature between +5°C and +35°C.



## 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.

