



Family  
**Intotech**

Type  
**Hydraulic lime based plasters**

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

Functional Categories  
• **Masonry plastering with plasters and skims**  
• **Renewal of wet masonry with waterproofing plasters**  
• **Thermal-insulating renewal of masonry**

Components  
**Single-component**

Appearance  
**Powder**

INT.0169

**SANAWARME**

Insulating plaster,  
dehumidifying, high thermo-  
acoustic performance

### **Customs Code**

2522 3000

### **Dosage**

6 kg /m<sup>2</sup>/cm

### **Packaging**

- Bag 13 kg
- Pallet: 50 x (Bag 13 kg)

### **Application**

- Finishing trowel
- Plastering machine
- Pump
- Straight edge

## Certifications and legislations



**EN 998-1**

Specification for Mortar for Masonry - Mortars for thermal insulation (T)



### **Sanageb - Prodotti naturali per la Bioedilizia**

Product belonging to Sanageb, Azichem's product line dedicated to green-building, sustainability in constructions and bio-architecture since 1994.

## General description

Thermal coating plaster, macroporous, with high thermal and acoustic insulation, average density equal to about 540 kg/m<sup>3</sup>, based on hydraulic lime, expanded perlite, granulated cork and specific and anti-saline agents, for dehumidification, thermal and hygrometric recovery of buildings and walls in ecological building interventions, new buildings and in the restoration of vintage buildings and monuments. Specific for applying "mineral coatings".

## General features

SANAWARME is the highest technological expression of Azichem in the context of renovating plasters. It is a product based on hydraulic lime, botticino, kaolin, calcium caseinate, Vichy salt, calcium carbonate, tartaric acid, ammonium salts, expanded perlite, cork powder and natural fibres. SANAWARME is characterised by high hygroscopic, breathable and thermal/acoustic insulation properties. It is a "thermal mineral coating", natural, for ecological building, that does not contain cements, resins, solvents and radioemissive materials.

The structure of the coatings made with SANAWARME, which is particularly suited to quieten and dissipate, in the form of heat, the acoustic energy inside the pores and "channels", provides interesting performance even in terms of sound absorption which, at high frequencies, reaches values of 1/3, with interesting prospects for acoustic correction of the internal environment (Test Report no. 214705 of August 3, 2006 issued by the institute Giordano).

## Fields of application

Applying coating plasters in both new constructions, and in interventions of restoration and renovation of old buildings. Anti-condensation and mildewcide correction for indoor, out of the ground and buried surfaces. Insulation of thermal bridges.

## Available colours

- Light hazel

















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## Basic features

|  |   |
|--|---|
|  Highlighted product                  |  Material 100% eco-friendly               |
|  Max. recommended thickness:<br>10 cm |  Maximum diameter of aggregate:<br>2.5 mm |
|  Min. recommended thickness:<br>3 cm  |  Mix with water:<br>43-53 %               |
|  Nonflammable                         |  Pot-life:<br>60 - 75 min                 |
|  Shelf-life:<br>12 months             |  Solvent-free                             |
|  Temperature of use:<br>+8 / +30 °C   |  To be applied in three coats             |
|  To be applied in two coats           |  UV-resistant                             |

## Technical specifications

*Bonding force (UNI EN 1542):* 0.18 N/mm<sup>2</sup>

*Breathability (UNI EN 1015-19):* 9 μ

*Capillary absorption (UNI EN 1015-18):* 0.35 kg•h<sup>0.5</sup>/m<sup>2</sup>

*Compressive strength (UNI EN 1015-11):* > 1.5 N/mm<sup>2</sup>

*Density (UNI EN 1015-6):* 700 kg/m<sup>3</sup>

*Reaction to fire (EN 13501-1):* A1 \_

*Static elastic modulus (EN 13142):* < 3000 N/mm<sup>2</sup>

*Thermal conductivity (λ) (UNI 7745):* 0.056 W/m\*K

## Tools cleansing

- Water

## Applicable on

- Plasters
- Concrete
- Cement-based or lime-based mortars
- Prefabricated concrete
- Wood
- Fiber-cement
- Bricks
- Mixed walls (bricks and stones)
- Brickworks
- Stone walls

## Substrate preparation

Removal of crumbling plaster, if present. The wall bodies for application should in any case be clean, intact, free from fouling, dust, crumbling and non-adhering parts, conveniently saturated with water until it reaches the condition of "saturated dry surface".

In the presence of salt efflorescence it will be necessary to ensure its careful removal by application of packs of the specific acid detergent and saline converter DETERG-A, in solution with water 1:4. To prevent any new spills of salts, use specific universal anti-saline treatments in aqueous solution, SANAREG, for humid surfaces, or solvent-based, FEST SALZ, for cohesive saline concretions but with perfectly dry surfaces.



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## Instructions for use

Preliminary construction of specific anchoring scratch coats, breathable, made with UNTERSANA. The 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. In the case of wooden surfaces, attach a galvanized steel wire mesh, diameter 2 mm and mesh 5x5 cm, to the support, holding it away from the surface by 2-3 mm. Spray the rendering UNTERSANA by hand or by plastering machine, in order to provide a rough surface, designed to facilitate the application and the adhesion of SANAWARME. In the case of applying the thermal coat SANAWARME on existing plaster, it is recommended to apply the super-adhesive rendering SANAPLUG.

Prepare the plaster, adding SANAWARME, to the mixing water, for approximately 60-70% by weight (8.5 -9 litres per 13 kg bag). Mix thoroughly until it reaches a smooth, creamy, lightweight, lump-free mixture resembling a "compact foam". Apply the thickness required according to the thermal calculation by plastering machine (type PFT model G4, or the like, equipped with lung for light plasters). For small sizes it is also possible to apply it manually with straight edge and plastic mortar.

Regularise the plastered surfaces with fine skim SANASTOF for ecological buildings, for an indicative consumption of 4 kg/m<sup>2</sup>. "Drown" in the thickness of the finishing layer the fibreglass mesh ARMAGLASS 160. Successive breathable paints or putty coats (from the series SANAFARBE, SANAXIL or PROTECH SIL) can be applied after approximately 28 days; in any case, after the proper curing of the plaster, depending on the actual environmental conditions, and the loss of initial alkalinity.

## 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

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

The fresh surfaces, of the plaster set on-site, should be protected from direct exposure to sunlight, from the rain and the wind and must be cured by prolonged moist hardening.

Over 4cm thick, inclusive of UNTERSANA, SANAWARME and SANASTOF, it is appropriate to insert in the centre thickness of SANAWARME a galvanized steel wire mesh, diameter 2 mm and mesh 5x5 cm, fixed to the masonry by steel connectors with improved adherence, following a square lattice with 1 metre spacing.



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*SANAWARME is produced/distributed by*



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