

Macrosan - *calce*

Concentrated dehumidifier plaster on lime base

The product

Macrosan calce is a natural inorganic compound containing a mixture of natural hydraulic limes, chemical additives and fibres. Mix with sand and clean water in a concrete mixer for at least 5 minutes: this will create a mixture volumetrically rich in micro air pockets (35-38 %) communicating with each other by means of a network of thick capillaries.

These characteristics enable the plaster evaporation surfaces to be increased (seven times more than a normal plaster) and trigger a natural and continuous dehumidification process in the brickwork until an equilibrium moisture content is obtained (with the evaporated humidity the same as the humidity taken from the capillarity of the walls).

Advantages:

- Dehumidifying action remains unchanged over time.
- It does not contain cement.
- Quick re-use of the room in which the product is applied.

Field of application:

Particularly suitable for historical buildings: It can be applied on internal or external walls exposed to rising damp (always in combination with Macrosal). It can be used in a basement, if ventilated without water infiltration phenomena, and as an anti-condensation coating after waterproofing with a layer of osmotic cement.

Suitable supports:

Brickwork, thermo-brick, tuff, mix walls.
Cement blocks.
Historical buildings where it is necessary to use lime-based products.

Product information data:

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| ▪ Containers | 20 kg bag |
| ▪ Appearance | light brown cement powder |
| ▪ Specific weight | 1.5 kg/l |
| ▪ Average consumption for 2 cm of thickness | 5.5 kg/sq m |

Application

Preparation of the supports :

Remove any traces of old plasters or other loose material up to about 1 m above the humidity line. Mechanically remove all loose parts, any salt deposits or any traces of waterproofing materials (tars, sheaths etc).

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Restore the flatness of a wall if necessary, fill big cavities with brick flakes or hollow flat tiles, using Macrosan calce as binding mortar. Moisten the surfaces that have to be treated and apply Macrosan on the wet supports.

Method of application:

Mix Macrosan calce in a concrete mixer, with approx 90-95 kg of coarse sand, in about 16 l of clean water for every 20 kg bag. Apply Macrosan with a rendering coat when the saline inhibitor, Macrosal, is still wet.

After at least 8 hours apply the minimum thickness of 2 cm of Macrosan calce paying attention not to press the product during the propping phase. Finish with a sponge trowel. After at least 2 or 3 weeks apply a highly transpiring paint from the Macrosan or Macrocolor series or smooth it using Macroraso.

Technical data and precautions during application:

▪ Water in the mixture	approx 16%
▪ Resistance coefficient to water vapour	μ 7
▪ Quantity of air in volume	35%-38%
▪ Compression resistance after	28 < 3.5 MPa
▪ Quantity of sand	for every bag 5-6 buckets (approx 95 kg)
▪ Time of mixture in concrete	mixer 4 - 5 minutes
▪ Pot life	2 hours
▪ Final minimum thickness	not less than 2 cm
▪ Waiting time	for the second application 8 hours
▪ Using temperature	+5°C / +35° C
▪ Storage	12 months if kept in a dry place and in the original containers
▪ Equipment	concrete mixer, post, trowel

Please note:

Do not apply the product on overheated surfaces or in presence of strong wind or bright sunlight

Do not apply the product on frozen supports or where there is a chance of intense cold within 24 hours of application

Do not add water, lime or any other mixed products.

Do not apply on gypsum surfaces

In case of high temperatures keep the surface humid for 24 hours.

All the above data relate to tests carried out in a controlled environment, and are therefore liable to change when the product is used.