



PALLADIO® CALCECOLOR RISANA



Hydrophobic, tinted in mass, sulphate- resistant
dehumidifying plaster based on micronized calcium hydrate
MICROCALCE CL 90-S and natural hydraulic lime NHL 5.

Product description

CALCECOLOR RISANA is a dehumidifying hydrophobic sulphate- resistant plaster tinted in mass, as per Norm EN 998-1, based on micronized calcium hydrate MICROCALCE CL 90-S, natural hydrated lime NHL 5, alluvial slime-free non crashed sands and natural coloured earths.

Supply and storage

CALCECOLOR RISANA is supplied in bulk or in 25 kg bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Fields of use

CALCECOLOR RISANA is a breathable eco-based render that, thanks to its specific formulation, can be used as rendering coat, plaster and breathable finishing, having the three layers equal in chemical-physical and chromatic characteristics.

CALCECOLOR RISANA is a product particularly suitable for restoration and renovation of historical and monumental buildings plasters. It is very resistant to atmospheric agents.

CALCECOLOR RISANA can be applied on interior and exterior walls made of brick, stone, cobblestone, travertine.

CALCECOLOR RISANA is used as a dehumidifying plaster, thanks to its highly porous structure, which allows to capture the moisture present in the masonry and facilitate rapid disposal by evaporation.

CALCECOLOR RISANA

CALCECOLOR RISANA used s a finish, prevents the passage of meteoric water in liquid form and ensures the disposal of the same in the form of steam.

CALCECOLOR RISANA is a product suitable for the construction of top boxes/covers for protection against atmospheric agents and smog of historic masonry and mixed stone.

Surface preparation

Before applying CALCECOLOR RISANA, it is advised to verify the wall support, eliminating eventual dust, inconsistent parts and salt efflorescence. It is also advised to wet the surface before application of the product.

Product preparation and application

MASONRY ABOVE GROUND

To use CALCECOLOR RISANA on above-ground masonry (not counter-ground) as rendering coat, mix a bag of dry product of 25 kg, with approx. 5,8 lit of water (23 %) in concrete mixer (for 4 min), with a whisk drill or plastering machine, until a homogeneous mixture is obtained, free of lumps and plastic consistent.

The application must be done by hand or by machine, with complete coverage of the masonry to be treated in the minimum thickness of mm.8-10. At the end of this application the surface should be adequately rough to ensure the adhesion of the next expected layer.

To use CALCECOLOR RISANA on above-ground masonry (not against the ground) as a restoration plaster, the rendering coat previously prepared must be moistened with low-pressure water.

Mix a bag of dry product of 25 kg, with approx. 6 lt of water (24 %), in concrete mixer (for approx. 7/8 min), with drill mixer (for approx. 5 min) or plastering machine, until you get a homogeneous dough, without lumps and plastic consistent.

For the latter it is recommended the use of the full paddle mixer with the help of "turbo", "rotor quill" or similar mixers; the use of a lung type D8/1,5 is mandatory.

The plaster will be applied with a minimum thickness of 20 mm in two coats at a distance of 24 hours from each other. For higher thicknesses, depending on the amount of salts present in the masonry (higher content of salts = greater thickness), perform the application with multiple coats of maximum 15 mm, waiting for the previous layer to be sufficiently cured.

After a few minutes from the application of the last hand, proceed to the levelling with aluminium level. After curing, the product can be prepared, with the technique of "topping up", for the subsequent finishing phase.

To use CALCECOLOR RISANA on above-ground masonry (not against the ground) as a breathable finish, you will have to carefully wet the finished plaster and wait for the surface water to evaporate, but leaving the support damp.

Mix a bag of dry product of 25 kg, with approx. 6,3 lit of water (25 %), in concrete mixer (for approx. 4 min), with a drill mixer until you get a homogeneous dough, without lumps and plastic consistent. The laying will be carried out with metal spatula in two or more coats crossing the direction of application. The possible processing of the second hand, applied when the first is perfectly firm, 24 hours later, must be performed in plastic phase, working with the sponge until obtaining a finish of "fine civil" type.

WALLS AGAINST THE GROUND

In order to use CALCECOLOR RISANA on the earthworks as a rendering coat, use PALLADIO W-PROOFING as a waterproofing agent. Mix a bag of dry product of 25 kg, with approx. 5,8 lit of water (23 %) in a concrete mixer (for 4 min), with a whisk drill or plastering machine, until you get a homogeneous dough, without lumps and plastic consistent.

The application must be done by hand or by machine, with complete coverage of the masonry to

CALCECOLOR RISANA

be treated in the minimum thickness of mm.8-10. At the end of this application the surface should be adequately rough to ensure the adhesion of the next expected layer.

In order to use CALCECOLOR RISANA on earthwork walls as a restoring plaster, the previously prepared rendering coat must be moistened with low-pressure water.

Mix a bag of dry product of 25 kg, with approx. 6 lit of water (24 %), in cement mixer (for approx. 7/8 min), with drill mixer (for approx. 5 min) or plastering machine, until you get a homogeneous dough, without lumps and plastic consistent.

For the latter it is recommended the use of the full paddle mixer with the help of "turbo", "rotor quill" or similar mixers; the use of a lung type D8/1,5 is mandatory.

The plaster will be applied with a minimum thickness of 20 mm in two coats at a distance of 24 hours from each other. For higher thicknesses, depending on the amount of salts present in the masonry (higher content of salts = greater thickness), perform the application with multiple coats of maximum 15 mm, waiting for the previous layer to be sufficiently cured.

After a few minutes, from the application of the last hand, proceed to the levelling with aluminium level. After curing, the product can be prepared, with the technique of "topping up", for the subsequent finishing phase.

In order to use CALCECOLOR RISANA on underground walls as a breathable finish, you will have to carefully wet the finished plaster and wait for the surface water to evaporate, but leaving the support damp. Mix a bag of dry product of 25 kg, with approx. 6,3 lit of water (25 %), in concrete mixer (for approx. 4 min), with a drill mixer until you get a homogeneous dough, without lumps and plastic consistent. The laying will be carried out with metal spatula in two or more passes coats the direction of application.

The eventual processing of the second hand, applied when the first is perfectly firm, 24 hours later, must be performed in plastic phase, working with the sponge until obtaining a finish of "fine civil" type.

Important notes

Before the application of each layer of this product the surface must be adequately damp, without noticeable stagnations.

Wet supports: Do not apply to wet or water-impregnated supports in order to avoid poor adhesion.

Very absorbent supports: it is good practice to take all precautions to avoid a rapid drying of the mortar.

Frost protection: Do not apply to temperatures below 5°C. In cold seasons, it is advisable to provide adequate protection of the mortar from frost; it is not recommended to use antifreeze additives that could affect the workability of the mortar.

High temperatures: in the presence of high temperatures take all precautions in order to prevent too fast drying of the mortar.

Sun rays: avoid the application of CALCECOLOR RISANA on surfaces directly exposed to sunlight. Protect the treated surface after application for at least one day.

Thicknesses greater than 3 cm: it is advisable to regularize the support (preliminary filling the mortar joints between stone and stone) especially whit changes in the section or unevenness of the support.

At the end of each vertical wall application, special care should be taken to ensure that it does not come into contact with the existing flooring.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

CALCECOLOR RISANA

Warnings

Do not mix CALCECOLOR RISANA with other substances. Avoid severe thermal changes during the gripping phase; the product must be protected from frost and quick drying. It is recommended not to use CALCECOLOR RISANA with temperatures lower than +5°C and higher than +30°C.

IMPORTANT: due to the use of natural coloured earths for the formulation of the product CALCECOLOR RISANA, colour variations may happen from one batch to another. Complete orders are recommended for each supply.

For any clarification or doubt about the use of this product it is recommended to contact the technical office of Fornaci Calce Grigolin Spa.

Please note that the data reported in this data sheet can be subject to additions and/ or changes over time by Fornaci Calce Grigolin Spa. The technical sheet is drawn up in function of an adequate experimentation that is performed monthly at our Laboratory. However, since it is not possible to intervene directly on the jobsites and during the execution of the works, the technical datasheet is a general indication that does not bind Fornaci Calce Grigolin Spa in any way. It is therefore advisable to always perform a preventive test of application of the product in order to verify the suitability for the intended use.

We remind you that the exposure , of the surfaces treated with this product to the atmospheric agents, rain, high humidity and low ambient temperature can generate whitening phenomena of the finish during the carbonation process. This phenomenon can be irreversible under particularly extreme conditions.

After the application of this product, the surfaces on the outside must be protected from rain and humidity until the product is completely dried up, which normally takes place after about 72 hours (at 20°C).

Specifications

Execution of dehumidifying sulphate-resistant tinted in mass plaster, like CALCECOLOR RISANA of Fornaci Calce Grigolin Spa conforming to EN 998-1, based on micronized calcium hydrate MICROCALCE CL 90-S, natural hydrated lime NHL 5, alluvial slime-free non crashed sands and natural coloured earths., with an average thickness of cm 2,5 having the following characteristics: specific gravity 1300kg/m³; maximum inert diameter mm 3,00; bending strength at 28days; compressive strength at 28days (cat.CS II); air content >30%; total porosity >45%; capillary absorption C after 24h >1kg/m²; permeability to water vapour μ 8; reaction to fire class A1; adhesion to brick 0,25 N/mm² ; thermal conductivity 0,40 W/mk.

The work takes place in the following methodology:

mechanical removal of the plaster taking care not to damage the existing masonry;
removal of any efflorescence and saline concretions with mechanical systems (brushing, sandblasting) , removal the salt residues removed from the base of the masonry;
washing of surfaces with a low pressure cleaner;

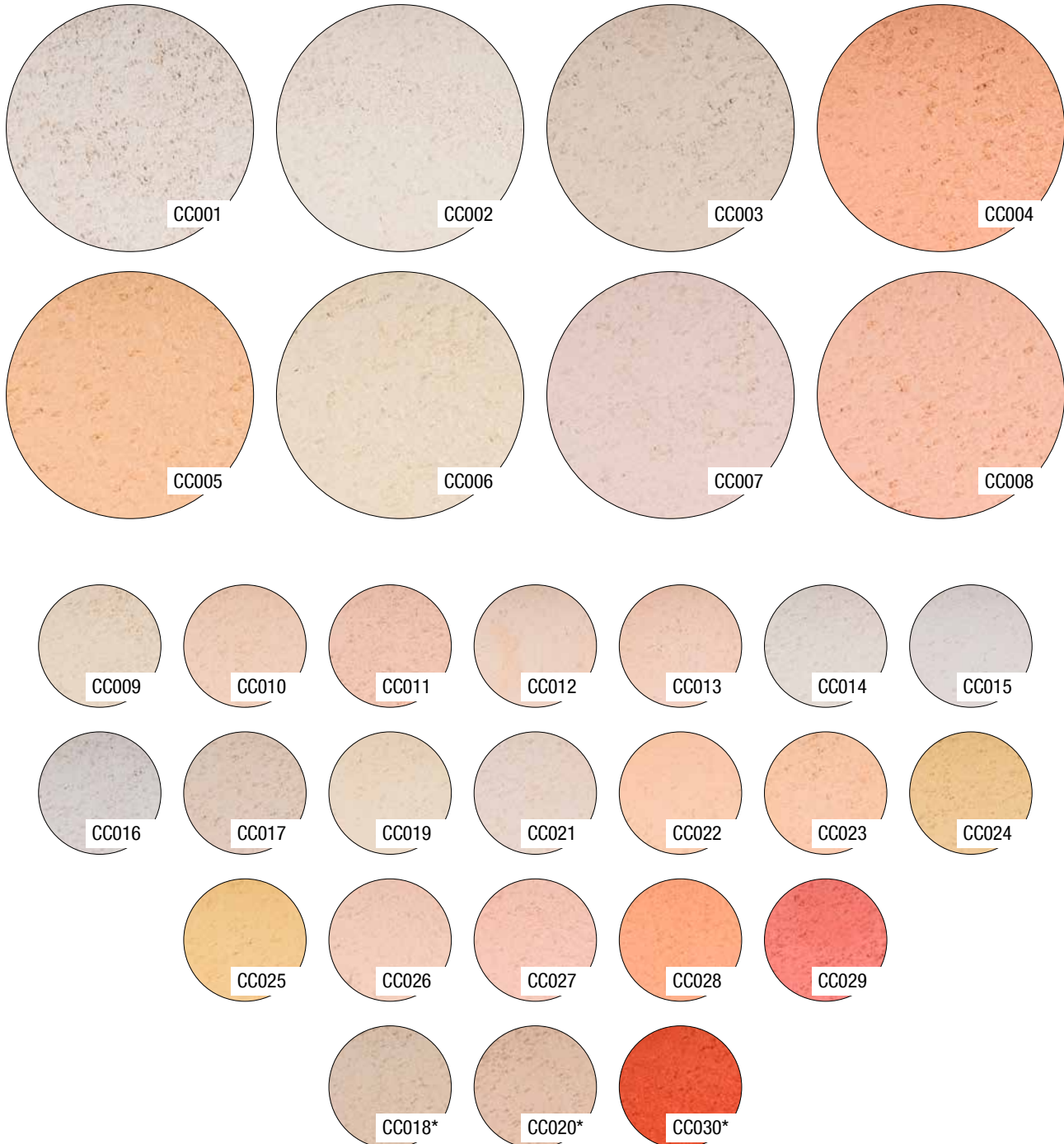
Realization of a rendering coat of minimum thickness 1 cm. to complete coverage of the existing masonry;

application of the plaster for an average minimum thickness of 1.5 cm. levelling the support;
after adequate maturation of the plaster, final shaving coat applied with 316 stainless steel spatula and subsequent final processing with sponge or rigid fratazzo? to obtain the desired finish.

CALCECOLOR RISANA

Color chart

This color chart is indicative, the final shade is determined according to the type of product and support.



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CALCECOLOR RISANA

TECHNICAL DATA	RESULTS
Class EN 998-1	R-CSII
Specific weight	1300 kg/m ³ deter.in free fall
Maximum diameter	3 mm
Rendering coat thickness	ca. 10 mm
Plaster thickness	20 mm in 2 coats (for greater thickness max 15 mm per coat)
Finishing thickness	2-4 mm
Water in the mix	23- 25%
Compression resistance at 28 days (cat CS II)	2,0 N/mm ²
Fresh mortar porosity	30% average
Theoretical consumption	12 – 13 kg/m ² per cm of thickness
Permeability to water vapour μ	8
Fracture type	A
Fire reaction	Class A1
Thermal conductivity λ	0,40 W/mK

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