

OPUS

Lime plaster in natural hydraulic lime NHL 5



DESCRIPTION

OPUS is a lime plaster made with the purest natural hydraulic lime and mineral dolomitic aggregates with a constant grading curve of between 0 and 4 mm. The combination of raw materials of the utmost quality allows for the creation of a product that combines excellent durability and resistance with the natural characteristics of breathability and healthiness typical of natural hydraulic lime.

The chemical and physical characteristics of lime guarantee excellent adhesion to surfaces, preventing the formation of mould and significantly contributing to regulating humidity in walls and interiors and providing benefits in terms of indoor comfort.

OPUS complies with UNI EN 998-1 regarding "Specification for mortar for masonry – for internal/external plastering for general purposes (GP)" and is subject to CE marking in relation to current regulations. The product is supplied in 25-kg bags.

INTENDED USES

OPUS has been optimised to maximise compatibility with period masonry and is particularly suited to restoration works requiring the utmost compatibility with the original materials, and to application in new buildings characterised by a specific focus on healthy environments, breathability and comfort.

OPUS is suitable for use on any brick, masonry, stone or mixed walls or in general on any smooth and even internal or external surface. The product allows for the creation or re-integration of period exposed mortar and the creation or re-integration of plaster on vertical walls and ceilings in successive coats of a maximum thickness of 15/20 mm each.

APPLICATION

PREPARATION OF SURFACE

Dirty or inconsistent surfaces

Prepare the surface for application by removing dust, salt efflorescence, inconsistent sections, release agents, salts, mould, soot, organic matter, etc. with a pressure washer or sandblaster.

Irregular surfaces

The product is to be applied to smooth and even surfaces, avoiding excessive differences in thickness between differing areas of the surface, evening the surface in advance through the application of a rough base if required.



Use of the product implies that the user has verified the suitability of said product for the relative purpose and assumes all responsibility deriving from said use. The data provided have been obtained from laboratory studies. MINIERA SAN ROMEDIO S.r.l. reserves the right to make changes to the technical data shown at any time and without notice.

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Highly absorbent surfaces

In the event of surfaces characterised by high water absorption, it is recommended to adopt all precautions in order to avoid the rapid drying of the mortar. It is therefore recommended to dampen the surface before applying the product. If the surface has been previously dampened, ensure that the support in general is damp but that the external surface is dry before applying the mortar.

Poorly absorbent surfaces

Application to concrete or to particularly smooth surfaces with no or extremely low capacity for water absorption must be carried out only after application of a rough-base primer as a coupling agent.

PREPARATION OF MIXTURE

Mix with clean water only to a ratio of approx. 3.5 – 4 l/bag (0.14 l/kg), without adding any other binders or aggregates. Mix by hand, with a concrete mixer, with a screw mixer or with a plastering machine. Avoid mixing for more than 3 minutes.

HOW TO APPLY

To be applied by hand and in line with indicated mixing times and methods. Apply the product in accordance with the type of application as indicated below.

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REINTEGRATION OR RESTORATION OF PLASTER

- 1) Selective or overall demolition, as necessary, of the deteriorated mortar in order to expose the original masonry in the case of support surfaces that are not new.
- 2) Preparation of the support surface as indicated above.
- 3) It is recommended to create a preliminary rough base with OPUS, with a slightly excessive amount of water in order to even out the support surface before applying the main body of plaster. Adhesion to the masonry can be increased as necessary, and water absorption adjusted, through the creation of a preliminary rough base with OPUS RIN.
- 4) Application of the main body of plaster with OPUS mixed with water in one or more coats according to the thickness to be applied (10 mm per coat or 20/30 mm if applying a single coat), respecting wait times before one coat and the next to allow the product to harden correctly. OPUS is to be straight-edged and then finished as preferred with a plastic or wooden float.
- 5) Completion of the layers with the creation of a skim coat in natural hydraulic lime with T A skim coats and finishing with the mineral products from the TASSULLO CREA line.

RESTORATION OR STUCCO FINISHING OF JOINTS ON EXISTING MASONRY

- 1) Mechanical removal with a spatula and/or other suitable tools (hard-bristle brushes, sorghum brushes, etc.) of the deteriorated sections of mortar and residue of moss and microflora from the surfaces to be treated, avoiding excessive incisions. In the presence of mould or other organic substances, apply a biocide detergent such as NOVAPIETRO BIO from the TASSULLO ROMA line, following the instructions in the technical information for the product and then controlled pressure washing.
- 2) Preparation of the support surface as indicated above.
- 3) Stucco finishing and sealing of the joints with OPUS to a minimum thickness of 10 mm and working of the surfaces with tools suited to the type of visual effect desired.
- 4) After a sufficient curing period and in accordance with the exposure of the facades, assess the eventual application of a specific product from the TASSULLO ROMA line in order to increase the resistance of the mortar to the elements.

WARNINGS

Wet surfaces

In order to avoid poor adherence, do not apply to surfaces impregnated with water.

Protection from frost

Do not apply at temperatures below 5°C. In cold periods, it is recommended to apply the mortar during the warmest part of the day and provide for suitable frost protection for the mortar. The use of antifreeze additives is not recommended, as these may compromise the workability of the mortar.

High temperatures

In the presence of temperatures of over 35°C, adopt all precautions in order to avoid the product from drying too rapidly. Excessive ventilation may cause the surfaces to dry rapidly.

Thickness of application

For thicknesses of more than 3 cm, above all in the presence of changes in section or unevenness of the surface, the use of AR fibreglass, stainless steel or galvanised steel mesh is recommended, and plaster should be applied in successive coats, allowing each coat to harden before applying the next.

Additives

The product is intended for professional use. Adding foreign materials to the mixture may compromise the performance of the product.

TECHNICAL DATA
GENERAL FEATURES

Binder	100% Natural Lime	
Maximum aggregate size	4 mm	EN 1015-1
Mixing water	approx. 0,140 l/kg	

DATA REGARDING PRODUCT APPLICATION (20°C, 50% R.H.)

Mixture consistency	thixotropic	
Volume of mixture	approx. 2080 kg/m³	EN 1015-6
Minimum required thickness	10 mm	
Maximum recommended thickness	30 mm	
Application in more than one coat	Permitted	
Porosity of fresh mortar (characteristic value)	10 %	EN 1015-7
Yield	17 kg/m² x cm	

PERFORMANCE OF APPLIED PRODUCT (WITH THE INDICATED MIXING WATER)

Classification	GP	EN 998-1
Mass (of hardened product)	1800 - 1900 kg/m³	EN 1015-10
Resistance class	CS III	EN 998-1

Resistant to compression after 7 days (characteristic value)	2,2 N/mm ²	EN 1015-11
Resistant to compression after 28 days (characteristic value)	3,8 N/mm ²	EN 1015-11
Adhesion to surface (brick)	0,3 N/mm ²	EN 1015-12
Water absorption due to capillary action	Wc0	EN 1015-18
Water vapour permeability coefficient	μ 12	EN 1015-19
Thermal conductivity (λ _{10,dry})	1,11 W/(m x K) (Tabulated value)	EN 1745
Reaction to fire	A1	EN 13501-1

USE AND FINISHING TIME

Wait time between the first and second coat	12 - 24 h
Finishing time (Curing at 20°C following application of the final coat)	48 - 72 h