



## PALLADIO® CALCETHERM

Fireproofing super-light plaster based on NHL 3,5 hydraulic lime according to UNI EN 459-1.



### Product Description

PALLADIO CALCETHERM is a super-light mineral thermo-insulating plaster based on siliceous aggregates and expanded glass, NHL 3,5 natural hydraulic lime in compliance with EN 459-1 and specific additives. The mechanical resistance corresponds to group CS I according to EN 998-1.

### Supply and storage

PALLADIO CALCETHERM is supplied in 13 kg bags on pallets with extensible. Store in a cool, dry and not ventilated place. Keep the packaging intact. Storage 12 months in unopened packages, protected from humidity.

### Fields of use

PALLADIO CALCETHERM is a high yield thermo-insulating plaster that can be used, both indoors and outdoors, on supports such as brick, rough concrete, plaster net, blocks, etc. and indoor and outdoor substrates.

PALLADIO CALCETHERM can be used both for new constructions and for the restoration of residential or industrial premises. It can be applied by hand or by mechanical projection. Thanks to its specific formulation, it is also used for the plastering of surfaces where it is necessary to apply thicknesses higher than the norm (> 2 cm).

# CALCETHERM

## Media Preparation

The substrates to be plastered must be clean, stable, possibly moistened, and have homogeneous surfaces. Any loose parts must be removed or consolidated.

On poured blocks, it is recommended to dampen the masonry by wetting to saturation the day before and to further dampen, before application, making sure of the absence of the water veil from the surface of the support.

Smooth concrete structures must be previously reinforced with RG 12 or alternatively prepared with AB 09 RASOCAL in order to guarantee adhesion.

PALLADIO CALCETHERM must not be applied on gypsum, painted, inconsistent and crumbling supports. In case of application in restoration works on pre-existing uneven walls or in presence of absorbing supports, it is advisable to apply a covering rinzaffatura made with PALLADIO RB 22, with a thickness of about 5 mm, in order to ensure adhesion and limit the formation of cracks.

## Application mode

After 24/48 hours from the application of PALLADIO RB 22, proceed with the application, by hand or by plastering machine, of PALLADIO CALCETHERM, up to a maximum thickness of 15/20 mm per coat. Use on all the masonry PALLADIO CALCETHERM with inserted in the middle of the expected thickness (when it is higher than 30 mm), with the technique of drowning, a fiberglass net plaster holder, with mesh mm 10x10 or 20x20, which allows to reinforce the plaster, to avoid the formation of any cracks caused by the movements of the different elements that make up the masonry and support for the layer of plaster itself that will be of consistent thickness.

Between the various applications to reach the necessary thickness, minimum recommended mm 40, let pass at least one day depending on the season and weather conditions.

For mechanical application use water as much as necessary.

For manual application mix the product, for 2-3 minutes, with clean water only, at a rate of about 8-9 liters per 13 kg bag. It is advisable to let the mortar rest for a few minutes before application.

With PALLADIO CALCETHERM well dry and hardened, after at least 28 days, it is possible to proceed with the application of the finish, that must include the following application steps:

1. reinforcing skim coat, thickness 3-4 mm, to be executed with PALLADIO AB 09 RASOCAL, laid in two coats with interposition of alkali-resistant glass fiber mesh
2. subsequent colored breathable finish, to be executed after at least 2 weeks, with the coatings of the line arteMURI silicates or siloxanic, after preparation of the fund with specific primer.

For application by mechanical spraying, the plastering machine must be equipped with a suitable screw-lung system (e.g. D8-1.5) and a broad-bladed mixer for heat-insulating plasters.

## Specifications

The substrates to be plastered must be clean, stable, possibly moistened, and have homogeneous surfaces. Any loose parts must be removed or consolidated. The surfaces so prepared can be plastered by hand or by plastering machine screw lung with the plaster CALCETHERM of Fornaci Calce Grigolin, premixed dry thermo-insulating based on siliceous aggregates and expanded glass, natural hydraulic lime NHL 3.5 in accordance with Standard EN 459-1 and specific additives. The mechanical resistance corresponds to group CS I according to EN 998-1, in the thickness indicated by the Works Management depending on the thermal balance sought.

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## Warnings

Do not mix CALCETHERM with other substances. Avoid strong temperature changes during the setting phase. Protect the product from frost and rapid drying.

Do not use below +5°C and above +30°C and/or with strong wind.

Always wet the substrate before application, avoiding water film before application. Outdoors avoid the contact of the plaster with the sidewalk leaving it detached of at least 2 cm.

Do not use on frozen substrates, in thawing phase or at risk of freezing in the following 48/72 hours. In summer time protect from rapid drying keeping the substrate humid.

Do not apply on: gypsum substrates, painted surfaces, crumbling or decohesive substrates.

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TECHNICAL DATA	PERFORMANCE
appearance	hazelnut powder
grain size	<2mm
mixing water	approx. 65%
heap density	460 kg/m <sup>3</sup>
compressive strength (cat. CS I)	0.7 N/mm <sup>2</sup>
vapor permeability	$\mu \leq 6$
thermal conductivity coefficient	$\lambda \leq 0.068$ W/mK
water absorption by capillarity	W0
adhesion	$\geq 0.1$ N/mm <sup>2</sup>
pH	$\geq 10,5$
reaction to fire	A1
yield	approx. 4,5 Kg/cm on m <sup>2</sup>
durability	NPD

The above values refer to laboratory tests carried out under ideal environmental conditions of temperature and humidity, and may therefore vary from the conditions of installation at the construction sites.

v. 05/2022

I dati riportati si riferiscono alle prove di Controllo Qualità in condizioni ambientali normalizzate. Applicazioni pratiche di cantiere a seconda delle condizioni di esercizio possono rilevare dati sensibilmente modificati, pertanto le informazioni presenti nella Scheda hanno valore puramente indicativo in quanto l'utilizzatore deve sempre verificarne l'idoneità nell'impiego del prodotto assumendosi la responsabilità derivante dall'uso. Fornaci Calce Grigolin S.p.A. si riserva di apportare modifiche tecniche di qualsiasi genere senza alcun preavviso.