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RC CALCOFIN 100

ULTRA-FINE SMOOTH FINISHING PLASTER IN POWDER FORM BASED ON PURE WHITE NATURAL HYDRAULIC LIME (NHL 3.5) FROM SAINT-ASTIER MAXIMUM GRAIN SIZE: 0.1 MM

Lime-based plasters



ADVANTAGES OF RC CALCOFIN 100

- ✓ Ultra-fine and smooth mineral finishing plaster
- ✓ Based on natural hydraulic lime NHL 3.5 from Saint-Astier (EN 459-1)
- ✓ Free from cement and clinker
- ✓ Suitable for both interior and exterior applications
- ✓ Provides an ideal smooth substrate for lime paints, siloxane paints and other breathable finishes
- ✓ Offers excellent vapour permeability and optimal adhesion to various substrates
- ✓ Highly suitable for restoration and renovation projects

Description

RC CALCOFIN 100 is a pre-mixed, fine-grain lime plaster in powder form, designed as a high-quality skim coat for interior and exterior applications. The mortar is formulated using natural hydraulic lime (NHL 3.5) from Saint-Astier as binder, combined with carefully selected fine fillers with a calibrated granulometry of 0–0.1 mm. The product is free from cement and clinker.

Area of application

The plaster is used as a finishing coat on mineral base renders. It is suitable for application on lime mortars and bastard mortars, resulting in an ultra-fine finish. It provides a suitable substrate for lime paints, silicate paints, siloxane paints and other breathable finishing systems. Suitable for restoration works and high-quality finishes in new-build construction.

Substrate

The substrate must meet the requirements for mechanical strength, stability and structural integrity, in accordance with the applicable Buildwise Technical Notes (TV 209 "External rendering" and TV 289 "External rendering on masonry and concrete"). The substrate must be clean and free from any substances that may impair or prevent adhesion, including dust, loose particles, moss, oil, grease, efflorescence and water-soluble salts. These contaminants must be treated or completely removed using appropriate methods prior to the work being carried out. Before starting the works, it must be verified that the substrate is free from rising damp, penetrating damp or any form of water ingress. RC CALCOFIN 100 must not be applied to substrates permanently exposed to moisture or in contact with standing water.

Application instructions

Substrate preparation

The substrate must be sound, stable and in good condition. Highly absorbent or dry substrates must be evenly pre-wetted without leaving standing water on the surface. Smooth, non-mineral or low-absorbency substrates must be suitably pre-treated or provided with a bonding coat.

Mixing

Mix the product with clean tap water. Add approximately 30% water (approx. 6 litres per 20 kg bag). Mix mechanically for 4 to 5 minutes using a slow-speed mixer (max. 450–500 rpm) until a homogeneous, smooth and creamy plaster free of lumps is obtained.

High-speed mixers (over 500 rpm) are not recommended in order to avoid air entrainment. Hand mixing is not recommended.

Allow the mortar to rest for a few minutes, then remix briefly. If necessary, adjust workability by adding a small amount of water or powder. Do not add water once the setting process has started. Only prepare the quantity that can be used within the pot life (approx. 60 minutes).

Application

Apply the mortar using a stainless steel trowel in a thin layer of approximately 1 mm. If required, apply in one or two thin coats, working in a cross pattern to ensure even distribution. Once the material has slightly stiffened, finish smooth using a trowel or sponge float; light sponging may be carried out to achieve a subtle texture.

Finishing

The plaster layer may only be painted after it has fully cured and dried. At a layer thickness of approximately 1 mm and under normal climatic conditions (± 20°C and ± 60% relative humidity), the minimum waiting time is 7 days. Overcoating must be carried out exclusively with breathable paint systems, such as lime paints, silicate paints or siloxane paints. RC CALCOFIN 100 can be finished with RC SILOXCOAT (siloxane paint), RC CALCO (lime paint) or other compatible breathable finishing systems.

Consumption

Theoretical consumption: approx. 1 – 1.5 kg/m^2/mm, depending on the porosity and adhesion of the substrate.

Technical information

PRODUCT IDENTIFICATION		
Mortar type	Skim coat / finishing plaster	
Appearance	Powder	
Colour	Natural white	
Granulometry	0.1 mm	
Residue on 80 µm sieve	2.8 %	
Density (powder)	1085 kg/m^3	
Bulk density (hardened mortar)	1100-1250 kg/m^3	EN 1015-10

APPLICATION DATA (at +20°C and 60% RH)		
Binder	Natural hydraulic lime NHL 3.5 (UNI EN 459-1)	
Water dosage	approx. 6 L per 20 kg bag	
Flow	180 mm	
Solid content (% by weight)	Min 99	
Permissible application temperature	+8°C to +30°C	
Working time of the fresh mortar	60 minuteS	EN 1015-9
Maximum thickness per coat	1 mm	
Flash point (°C)	Non-flammable	
Maximum grain size (mm)	0.1	

FINAL PERFORMANCE (according to EN 998-1)		
Compressive strength (28 days)	≤ 5 N/mm²	EN 1015-11
Adhesion (N/mm²)	>0,2 N/mm²	EN 1015-12
Water absorption by capillary action	WO	EN 1015-18
Water vapour permeability coefficient	5-20	EN 1015-19
Thermal conductivity (λ10, dry)	0,61	EN 1745-2002
Fire rating	F(NPD)	EN 13501-1

**The figures above are provisional/theoretical and are yet to be confirmed.*

Security

For more information, please refer to the most recent safety data sheet (SDS).

Remarks

- The substrate must be solid, dust-free and load-bearing.
- Do not add any extra water once the mortar has started to set.
- Always mix mechanically to ensure a homogeneous result.
- Apply at a temperature of between +8°C and +30°C over the next 48 hours.
- Protect from frost, direct sunlight, wind and driving rain for 2 to 3 days.
- Excessively rapid drying may cause cracking or powdering.
- It is not permitted to add cement or any other hydraulic binder.

Cleaning of equipment

Tools can be cleaned immediately with water while the product is still fresh. Hardened material must be removed mechanically.

Storage / Shelf life

- 12 months in original unopened packaging, stored in a dry, covered area (<60% RH) at temperatures between +5°C and +30°C
- The product is sensitive to moisture

Packaging

20 kg bag (ref. S10494)

Legal Notes
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