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TerraGen Base

PRODUCT DESCRIPTION

OriGen® **TerraGen Base** is an aerial lime-based mortar with a matt mineral finish, free of hydraulic additives and highly breathable. *TerraGen Base* contains high quality artisanal lime from the south of Spain, obtained from the traditional limestone burning process. Reinforced with SGL carbon fibre to avoid micro-cracks. The resulting product is resistant and durable, providing healthier and more sustainable environments.

For application in interiors and exteriors in new construction and restoration.

PRODUCT PROPERTIES

- Off-white tone.
- Good workability and adhesion on both old and new substrates.
- Highly breathable.
- For interior and exterior use.
- High water vapour permeability.
- Excellent flexibility.
- Can also be projected.
- Free of VOC and formaldehyde emissions.
- Neutralizes CO₂.
- Sustainable; designed under circular economy standards.

TECHNICAL CHARACTERISTICS

UNE EN 998-1 Classification	Plaster type: GP
Mixing water	≈ 4.5 litres per 25 kg bag
Recommended thickness	Max. 15 mm per coat
Performance	20-23 Kg/m ²
Apparent density in powder	≈ 1,75 g/cm ³
Apparent density in paste	≈ 1,80 g/cm ³
Hardened apparent density	≈ 1,75 g/cm ³
Water retention	≈ 97 %
Consistency	≈ 168 mm
Water absorption class	W1



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UNE EN 998-1 Classification	Plaster type: GP
Adhesion strength	> 1,45 N/mm ²
Compressive strength	≈ 5.00 N/mm ² (CS II)
Tensile strength	≈ 0,5 N/mm ²
Fire behaviour	A1
Water vapour permeability	≈ 2,600 *10 ⁻¹¹ Kg/m ² s Pa (μ <6)



CE Classification: GP-CSII-W0 (EN 998-1:2018)

SUBSTRATE PREPARATION

The substrate must be dry and clean, free of dust, salts and imperfections.

If the substrate has algae, mould, fungus and/or other impurities, it is recommended to carry out a thorough cleaning with specific products for such purposes.

If the substrate is decohesioned, brush and treat with *MinerGen* consolidating sealer.

Brush and apply vinegar to substrates with salt deposits.

On non-porous substrates it is recommended to apply a specific primer as bonding agent.

In case of application on very absorbent substrates (or with low porosity), apply an adhesive mortar (leaving it scratched or brushed) and let it dry for 24 hours.

If the substrate presents any pathology not specified above, it is recommended to contact the Technical Department.

GENERAL INDICATIONS:

Protect surfaces that are not going to be treated (carpentry, glass, stone...).

Do not soak the substrate before application, only dampen if it is very dry.

It is advisable not to exceed the amount of mixing water.

Do not add water for its hardening, it cures by absorbing environmental CO₂.

It is recommended to protect the treated surface from rain for at least 4 days.

It is recommended to protect the surface with a water repellent product.

Do not mix with other products to preserve its specific properties.



APPLICATION INDICATIONS

APPLICATION SURFACES:

Generally applied on mineral walls, brick, concrete blocks or render. It can also be applied on other surfaces after correct preparation of the substrate.

APPLICATION CONDITIONS:

The ambient and surface temperature must range between +8°C and +30°C. Do not apply under direct sunlight or on substrates overheated by the sun.

In case of high temperatures or wind, dampen the substrate before application and keep the already applied render damp with water sprayings for at least 48 hours.

PRODUCT PREPARATION:

Mix with clean water (\approx 4.5 litres per 25 Kg bag) until the desired consistency is achieved. Do not exceed 5 minutes when mixing mechanically.

PRODUCT APPLICATION:

Evenly apply by hand or projection device. Working thickness: 5-15mm per day. Apply a coat of approx. 5-15 mm and level the applied material. Then use another rule to remove the excess material and regularise the mortar thickness. Do not smooth the mortar surface to ensure proper adhesion of the mortar that will be applied later.

If the substrate has cavities, natural stones, etc., the mortar must be previously splattered to ensure good adherence and avoid superficial cracks.

Reinforcing mesh should be used in case of substrates with different natures.

Product consumption: approx. 20 Kg/m² per cm thickness, depending on the finish and the substrate condition.

Technical advice: In case of doubt, please contact the technical department tech@origenpaints.com

DRYING TIME:

At 25°C and 60% relative humidity: 3-4 hours after application as gripping mortar, 24-48 hours between coats, 48 hours for protection and at least 4 days for paint application.

Full curing time is 30 days. The product will then reach a higher hardness and resistance. No cleaning and/or scrubbing is recommended until after this period.



TOOLS:

Preparation: mechanical stirrer, mixing builder's tub.

Application: trowel, spraying machine, ruler.

Finishing: notched trowel or similar, trowel.

TOOL CLEANING:

Wash tools after use with lukewarm water.

SHIPPING FORMAT:

Format	Units per pallet
25 kg bag	56

STORAGE

Store closed in its original bucket in a cool place. Protect from frost and direct sunlight.

Shelf life is 18 months after manufacture date.

WASTE MANAGEMENT

See Safety Data Sheet and follow local regulations.

The containers are made of paper with intermediate polyethylene film.

Please respect the environment, do not dispose of the product down the drain and use the nearest waste disposal point.

SAFETY INDICATIONS

See the latest version of the product MSDS for safety, physical, ecological and toxicological data.

The values and characteristics indicated are the result of intensive development work and practical experience. Application recommendations, both verbal and written, are intended to assist in the selection of our products and do not constitute a contractual legal relationship. In particular, they do not release the user from the obligation to check the suitability of the product for the intended use. The general technical standards of construction shall be respected. We reserve the right to make modifications to improve the product or its application. This edition supersedes all previous editions.