TECHNICAL DATA SHEET

TerraGen™ Adhesive

Aerial lime adhesive mortar · Matte mineral finish

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01 PRODUCT DESCRIPTION

OriGen TerraGen™ Adhesive is an aerial lime adhesive and repair mortar in paste form for interior and exterior use. Highly breathable, it features $CaCO_3$™ Technology (Graphene Technology) and delivers outstanding resistance and durability. In addition, it neutralizes CO_2 as it cures. A multi-purpose bonding mortar, it is ideal as an anchor for EIFS insulation boards, as a tile adhesive for walls and floors – including showers and other wet areas – and as a repair mortar, over masonry, concrete or drywall, for new construction, restoration, and renovation of historic buildings.

Ready-to-use paste, supplied in a **37.5 lb (17 kg)** pail. No mixing required.

02 KEY FEATURES

- High flexibility, adhesion, and resistance
- Multi-purpose bonding: ceramic tile on walls and floors, EIFS boards and drywall
- Highly breathable; prevents condensation
- High water vapor permeability
- For interior and exterior use
- Good workability
- Neutralizes CO_2 as it cures: approx. 10.6 lb (4.8 kg) per 15 L pail (manufacturer's notarized voluntary declaration)
- VOC content: < 1 g/L (ISO 11890-2)
- Formula designed with circular-economy concepts

03 TECHNICAL PROPERTIES

PROPERTY	VALUE
Fresh bulk density (EN 1015-6)	**94 ± 6 lb/ft³ (1500 ± 100 kg/m³)**
Hardened bulk density (EN 1015-10)	**84 ± 6 lb/ft³ (1350 ± 100 kg/m³)**
Compressive strength (EN 1015-11)	**> 363 psi (2.5 N/mm²)**
Flexural strength (EN 1015-11)	**> 435 psi (3 N/mm²)**
Adhesion (EN 1348)	**> 73 psi (0.5 N/mm²)**
Fire behavior (EN 13501-1)	**A1 · European classification**
Nature	**Aerial lime putty**

04 COVERAGE

0.15–0.20 lb/sq.ft per mm

0.75–1 KG/M² PER MM · UP TO 1 LB/SQ.FT (5 KG/M²) AT 0.2 IN (5 MM)

Depending on the substrate type and condition.

Coverage per mm of applied thickness; working thickness 0.04–0.20 in (1–5 mm). Actual consumption depends on the finish and the substrate condition.

On-site testing is recommended to determine precise consumption.

05 AVAILABLE COLORS

Sand white and the Harmony Color Card.

The final color tone may vary slightly from the selected one.

06 APPLICATION SURFACES

Brick, concrete, fiber cement, stucco, plaster, drywall (gypsum board), prefabricated panels, tiles, and masonry. It can be applied on other surfaces with a correct preparation of the substrate, such as prefabricated panels or existing paint.

Uses: ceramic tile on walls and floors, EIFS insulation boards, repair, base coat and finish; interior, exterior and wet areas such as showers, where the exposed surface is protected with **TerraGen PU Water-Repellent**.

07 SUBSTRATE PREPARATION

- The substrate must be dry, firm, well adhered, and free of impurities to ensure good adhesion of the product.
- If the substrate shows algae, mold, fungus, or other impurities, carry out a thorough cleaning with specific products.
- If the substrate is friable, brush and treat it with the *MinerGen* consolidating sealer.
- On substrates with salt deposits, brush and apply Neutralysalt Primer.
- On non-porous substrates, a specific primer is recommended as a bonding bridge.
- Protect surfaces that will not be treated (carpentry, glass, stone...).
- Do not soak the substrate before application; dampen it only if it is very dry.
- For any substrate pathology not described here, contact the Technical Department.

08 APPLICATION CONDITIONS

- Ambient and substrate temperature: **41°F to 86°F (+5°C to +30°C)**
- Do not apply in direct sunlight or on substrates overheated by the sun.

- In high temperatures or wind, dampen the substrate before application and keep the applied mortar damp with water sprayings for at least **48 hours**.
- Protect the treated surface from rain for at least **4 days**.

09 PRODUCT PREPARATION

- Stir thoroughly until homogeneous. Do not dilute: the product is ready to use.
- Do not mix with other products, to preserve its specific properties.

10 APPLICATION METHOD

- Manually apply a first rough (keying) coat, then an even second coat until the required thickness is reached.
- Finish according to the intended function:
  - With a notched trowel (up to **0.4 in / 10 mm**) for bonding ceramic tile on walls and floors, EIFS insulation boards, or similar.
  - Brushing/sanding for the later application of a finishing mortar.
  - For a natural stone effect finish: spread the product evenly over the surface and, after **24 hours**, sand with 800-grit sandpaper.
- Use reinforcing mesh on substrates of different natures.
- Recommended working thickness: **0.04–0.20 in (1–5 mm)**.
- Tools – preparation: mechanical stirrer; application and finishing: steel trowel and notched trowel.
- In showers and other wet or high-humidity areas (bathrooms, kitchens), protect the exposed surface with **TerraGen PU Water-Repellent**; it reduces the breathability of the finish.

> ⚠ Do not add water for hardening: the product cures by absorbing environmental CO_2.

For technical inquiries: marketing@origenpaints.com

11 DRYING & CURING TIMES

- **Recoat:** 4–6 hours at 77°F (25°C) and 60% relative humidity
- **Final protection:** after 7 days
- **After bonding tiles, EIFS systems, or flooring:** allow at least 7 days of drying
- **Complete curing:** 30 days – the product then reaches its maximum hardness and resistance; do not clean or scrub the surface before this period.

Drying time may vary with temperature and humidity.

12 TOOL CLEANING

Clean all tools with **warm water** immediately after use.

13 PACKAGING FORMATS

- **37.5 lb (17 kg)** in a 15 L pail, ready to use – 33 units/pallet (ground transport) or 44 units/pallet (sea freight)

14 STORAGE

- Store closed in its original container, in a cool place
- Protect from frost and direct sunlight
- Shelf life: **18 months** from manufacture date

15 WASTE MANAGEMENT

- See the Safety Data Sheet (SDS) and follow local regulations
- The pails are made of recycled plastic
- Do not dispose of the product down the drain; use the nearest waste disposal point

16 SAFETY INDICATIONS

- **Corrosive** due to its lime content (pH > 11). **H314:** Causes severe skin burns and eye damage. Wear gloves and eye protection.
- See the latest version of the Safety Data Sheet (SDS) for physical, toxicological, ecological, and safety data
- Avoid direct contact with skin; use protective gloves and goggles
- Keep out of children's reach

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 that improve the product or its application. This edition supersedes all previous editions.