TECHNICAL DATA SHEET

OxiGen™ Therm

Thermal lime-based mineral paint — Matte finish

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01 PRODUCT DESCRIPTION

OriGen OxiGen™ Therm is a lime-based mineral paint formulated for exterior use. It is highly breathable. The finish is matte and mineral in appearance, available in a curated selection from the Harmony color chart.

OxiGen Therm contains high-quality artisanal lime combined with $CaCO_3$™ Technology (Graphene Technology) and nano glass, resulting in a premium-grade, durable, and long-lasting product with a highly breathable mineral finish. OxiGen Therm helps neutralize CO_2 and has an extremely low carbon footprint. OxiGen Therm considerably reduces temperature transfer between the interior and the exterior of the wall or roof.

Ideal for both new construction and repainting, it is perfect for decorating exterior walls and other mineral-based substrates.

02 KEY FEATURES

- High hiding power
- Strong adhesion without forming a film
- Highly breathable and water-repellent
- Prevents condensation
- VOC content: < 1 g/L (ISO 11890-2)
- Formula designed with circular-economy concepts
- Free of solvents and microplastics
- Titanium dioxide content < 1%
- Organic content < 5%
- Neutralizes CO_2 as it cures: approx. 13.2 lb (6 kg) per 5 gal pail (manufacturer's notarized voluntary declaration)

03 TECHNICAL PROPERTIES

PROPERTY	VALUE
Specific Gravity	**1.40 ± 0.05 g/cm³**
pH	**13 ± 1**
Viscosity	**90–110 KU (Krebs units)**
Solids by Weight	**60 ± 5%**
Nature	**Aerial lime**

Appearance	**Dense liquid**
Finish	**Matte**
VOC Content	**< 1 g/L**
Reaction to fire	**A2 · European classification**
Water Vapor Transfer	**Sd < 0.05 m (V1)**
Capillarity	**W2**
Solar Reflectance	**> 80%**

04 COVERAGE

0.9–1.2 kg/m²
COMPLETE SYSTEM

18–25 lb/100 sq.ft
COMPLETE SYSTEM

Coverage depends on substrate type and condition, tools used, and application method. On-site testing is recommended to determine exact consumption.

05 AVAILABLE COLORS

Selected shades from the Harmony Color Chart.

Note: Due to the mineral nature of the product, only mineral-based, lightfast pigments can be used. Final color may slightly differ from the selected sample.

06 APPLICATION SURFACES

Concrete, cement stucco, plaster, gypsum, fillers, prefabricated panels, brick, and other mineral-based surfaces.

07 SUBSTRATE PREPARATION

- Substrates must be dry, clean, and free from dust, salts, and imperfections.
- Remove loose or poorly adhered paint manually or with pressure washing.
- Ensure surface texture is even.
- If the surface shows algae, mold, mildew, or other impurities, thoroughly clean with suitable biocidal products.
- For absorbent substrates, apply MinerGen sealer.

- For wood, non-corroded metal, or non-porous surfaces (e.g., ceramic tiles), apply a universal bonding primer.
- Old film-forming paints that block vapor diffusion or are unstable must be removed with a stripper or mechanical means.
- Mineral substrates must be at least **28 days cured**.
- Do not apply on surfaces in permanent contact with water.
- In areas exposed to high humidity or pollution, apply a water-repellent sealer to reduce water and impurity absorption.
- Protect all non-painted surfaces (woodwork, glass, stone, etc.) and clean splashes immediately with water.
- Do not mix with other products to preserve its specific properties.
- For any other conditions not specified above, consult the Technical Department.

08 APPLICATION CONDITIONS

- Ambient and surface temperature: **41°F to 104°F (5°C to 40°C)**
- Do not apply in direct sunlight or on overheated surfaces.
- Protect surfaces from sun, wind, and rain during and after application.
- Shield the painted surface from rain for at least **4 days** after application.

09 PRODUCT PREPARATION

- Stir thoroughly before use.
- Dilute with **5–10% water by weight** (approximately **9–18 fl oz of water per gallon, or 70–140 mL per liter**).

10 APPLICATION METHOD

- Apply using brush, roller, or spray gun (nozzle size **≥ 0.017 in**).
- Apply **2 uniform coats**.
- For highly exposed exterior walls, 3 coats are recommended.

> ⚠ Excessive product in a single coat may cause micro-cracking.

For technical inquiries: marketing@origenpaints.com

11 DRYING & CURING TIMES

- **Recoatable:** 2–4 hours at 77°F (25°C) and 60% relative humidity
- **Fully dry:** 24 hours

- **Full cure:** 30 days, reaching optimal hardness and resistance — avoid cleaning or scrubbing the surface during the curing period.

12 TOOL CLEANING

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

13 PACKAGING FORMATS

- **1 gal** (128 fl oz)
- **5 gal** (640 fl oz)

14 STORAGE

- Store in original, sealed containers in a cool place.
- Protect from frost and direct sunlight.
- Shelf life: **18 months** from manufacturing date.

15 WASTE MANAGEMENT

- Refer to the Safety Data Sheet and comply with local regulations.
- Containers are made of recycled plastic.
- Respect the environment: do not pour leftover product into drains.
- Use the nearest recycling center.
- Reuse leftover product whenever possible to reduce paint waste.

16 SAFETY INDICATIONS

- Always consult the latest Safety Data Sheet for full safety, health, and ecological information.
- **Corrosive** due to its lime content (pH > 11). **H314:** Causes severe skin burns and eye damage. Wear gloves and eye protection.
- Keep out of reach of children.

All values and product characteristics are based on intensive research and practical experience. Recommendations — written or verbal — serve as general guidance and do not establish a legal warranty. Users must verify the product's suitability for their specific needs. Comply with general construction regulations and standards. We reserve the right to improve or modify the product without notice. This edition supersedes all previous versions.