TECHNICAL DATA SHEET

OxiGen™ Photocatalytic

Photocatalytic Air-Lime Mineral Paint — Matte Finish

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01 PRODUCT DESCRIPTION

OriGen OxiGen™ Photocatalytic is an air-lime based paint with a matte mineral finish, free of hydraulic additives and highly breathable. It contains high-quality artisan lime from southern Spain, obtained through the natural firing of limestone, resulting in a resistant and durable mineral finish. It is enhanced with photocatalytic TiO_2.

02 KEY FEATURES

- Off-white color
- Good adhesion on both old and new substrates
- Highly breathable
- Highly permeable to water vapor
- Excellent flexibility
- Suitable for interior and exterior use
- Can be spray-applied
- VOC content: < 1 g/L (ISO 11890-2)
- Neutralizes CO_2 as it cures: approx. 13.2 lb (6 kg) per 5 gal pail (manufacturer's notarized voluntary declaration)
- Formula designed with circular-economy concepts
- Photocatalytic

03 TECHNICAL PROPERTIES

PROPERTY	VALUE
Specific Gravity	**1.48 ± 0.05 g/cm³**
pH	**13 ± 1**
Viscosity	**80–120 KU**
Solids by Weight	**60 ± 5%**
Base	**Air lime**
Appearance	**Dense liquid**
Finish	**Matte**

PROPERTY	VALUE
VOC Content	**< 1 g/L**
Reaction to fire	**A2 · European classification**

04 COVERAGE

183–265 sq.ft/gal (4.5–6.5 m^2/L)

IN 2 COATS

Actual coverage depends on the surface type and condition, tools used, and application method. On-site testing is recommended to determine precise consumption.

05 APPLICATION SURFACES

- Generally applied over stucco and plaster.
- Can be applied to other surfaces with proper substrate preparation: prefabricated panels, existing paint, etc.

06 SUBSTRATE PREPARATION

- The substrate must be dry and clean, free from dust, salts, and imperfections. Make sure the substrate texture is evened out.
- Remove any particles of previous paint that are not well adhered, either manually or with pressurized water.
- If algae, mold, mildew, or other impurities are present, clean thoroughly and remove them completely with specific products for that purpose.
- For absorbent substrates: apply the sealer MinerGen.
- For wood, metal (free from corrosion or rust), or non-porous surfaces (such as tiles): apply a bonding primer.
- Old paints that form a film and block vapor diffusion, or that are not sound, must be removed with a paint stripper or by mechanical means.
- Mineral substrates must be at least **28 days cured**.
- Do not apply on surfaces in permanent contact with water.
- In areas highly exposed to humidity or heavy pollution, apply a water-repellent sealer to minimize the absorption of water and impurities.
- Protect surfaces that will not be treated (woodwork, glass, stone...).
- Do not soak the substrate before application; only dampen it if it is very dry.
- For any substrate pathology not specified above, contact the Technical Department.

07 APPLICATION CONDITIONS

- Ambient and surface temperature: **46°F to 86°F (+8°C to +30°C)**
- Do not apply in direct sunlight or on sun-overheated substrates.
- In high temperatures or wind, dampen the substrate beforehand and keep the applied coating damp by misting with water for at least 48 hours.
- Protect the treated surface from rain for at least **4 days**.

08 PRODUCT PREPARATION

- Stir thoroughly before use.
- Dilute with **5–10% clean water by product weight** (approx. **9.5–19 fl oz per gallon / 74–148 mL per liter**).
- Do not add excess mixing water.
- Do not mix with other products, in order to preserve its specific properties.

09 APPLICATION METHOD

- OxiGen Photocatalytic can be applied by brush, roller, or spray gun (tip: **≥ 435**).
- Apply **2 uniform coats**.
- On highly exposed exterior walls, a third coat is recommended.
- Do not wet the coating to cure it — it hardens by absorbing ambient CO_2.
- If the finish is left exposed to the elements, protecting the surface with a water-repellent product is recommended.

> ⚠️ Excess product per coat may cause micro-cracking.

For technical inquiries: marketing@origenpaints.com

10 DRYING & CURING TIMES

- **Second coat:** After 2–4 hours at 77°F (25°C) and 60% relative humidity
- **Full drying:** After 24 hours
- **Complete curing:** After 30 days, reaching maximum hardness and resistance — do not clean or scrub before this time.

Drying time increases with higher ambient humidity and lower temperatures.

11 TOOL CLEANING

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

12 PACKAGING FORMATS

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

13 STORAGE

- Store in its original, sealed packaging in a cool place.
- Protect from frost and direct sunlight.
- Maximum shelf life: **18 months** from the production date.

14 WASTE MANAGEMENT

- Refer to the Safety Data Sheet (SDS) and follow local legal regulations.
- Containers are made of recycled plastic.
- Respect the environment: do not dispose of waste through drains – use the nearest recycling center.

15 SAFETY INDICATIONS

Corrosive due to its lime content (pH > 11). **H314:** Causes severe skin burns and eye damage. Wear gloves and eye protection.

Refer to the latest Safety Data Sheet (SDS) for safety, physical, ecological, and toxicological data.

The values and characteristics indicated are the result of intensive development work and practical experience. Recommendations regarding application, whether verbal or written, are intended to assist in the selection of our products and do not constitute any contractual legal relationship. In particular, they do not release the user from the obligation to verify the suitability of the product for the intended use. General technical construction standards must be observed. We reserve the right to make modifications that improve the product or its application. This edition supersedes all previous versions.