

Technical Data Sheet

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OxiGen Photocatalytic

PRODUCT DESCRIPTION

OriGen® OxiGen Photocatalytic is a matte mineral lime-based paint, free of hydraulic additives and highly breathable. OxiGen Photocatalytic contains high-quality artisan lime from southern Spain, obtained from the natural calcination of limestone, resulting in a durable, resilient product that promotes healthier and more sustainable environments. It is enhanced with TiO₂ nanoparticles, which reduce the environmental impact of airborne pollutants and provide high efficiency in eliminating NO_x and other organic contaminants (VOCs). Through photocatalysis, it achieves degradation of organic particles and self-cleaning.

FEATURES

- Off-white color
- Good adhesion to both old and new substrates
- Highly breathable
- Highly permeable to water vapor
- Excellent flexibility
- Suitable for interior and exterior use
- Sprayable application possible
- Free of VOCs and formaldehyde emissions
- Neutralizes CO₂
- Sustainable, designed under circular economy standards
- Photocatalytic

COVERAGE

15 to 26 square feet per liter (2 coats) [approx. 140–230 square feet per gallon]. Coverage depends on substrate type and condition, tools used, and application method. Exact consumption must be determined by on-site test samples.

SURFACE PREPARATION

The surface must be dry and clean, free of dust, salts, and imperfections. Poorly adhered previous paint particles must be removed manually or with pressure washing. Ensure surface texture is even.

If algae, mold, fungi, or other impurities are present, thoroughly clean using appropriate products to fully eliminate them.

For absorbent surfaces, apply MinerGen sealer. For wood, metal (free of corrosion or oxidation), or non-porous surfaces (such as tiles), apply a primer that acts as a bonding bridge.

Old paint films that block vapor diffusion or are not firmly adhered should be removed mechanically or chemically.

Mineral substrates must be at least 28 days old. Do not apply on surfaces in permanent contact with water. In areas with high humidity or pollution, it is recommended to apply a water-repellent sealer to minimize water and impurity absorption.

If the substrate has unspecified pathologies, contact the Technical Department.

GENERAL INSTRUCTIONS

Protect surfaces not to be treated (woodwork, glass, stone, etc.).

Do not saturate the substrate before application; only moisten if very dry.

Avoid excessive mixing with water.

Do not water cure; hardening occurs through ambient CO₂ absorption.

Protect the treated surface from rain for at least 4 days.

If left exposed, protect the surface with a water-repellent product.

Do not mix with other products to maintain specific properties.

APPLICATION SURFACES

Generally applied on roughcast or plaster. Can also be applied on other surfaces with proper substrate preparation, such as prefabricated panels, existing paint, etc.

APPLICATION CONDITIONS

Ambient and substrate temperatures should be between 46°F and 86°F (8°C to 30°C).

Do not apply in direct sunlight or on sun-heated surfaces.

In hot or windy conditions, pre-moisten substrates and keep the applied render moist by misting with water for at least 48 hours.

PRODUCT PREPARATION

Stir well and dilute with 5–10% water by weight (about 3.4–6.8 fl oz water per US gallon of product).

PRODUCT APPLICATION

OxiGen Exterior can be applied with a brush, roller, or spray gun (nozzle size ≥ 0.017 inches / 435 microns).

Apply two uniform coats. Excess product per coat may cause micro-cracking. For highly exposed facades, a third coat is recommended.

TECHNICAL SUPPORT

If in doubt, contact the technical department at tech@origenpaints.com.

DRYING TIMES

Second coat can be applied after 2–4 hours (at 77°F and 60% relative humidity). Longer drying times with higher humidity or lower temperatures.

Full drying occurs after 24 hours.

Full curing happens after 30 days, providing increased hardness and durability. Avoid cleaning or scrubbing before this period.

TOOL CLEANING

Clean tools with warm water immediately after use.

PACKAGING

Available in 1.06 US qt (1 L), 1.06 US gal (4 L), and 3.96 US gal (15 L) containers.

Container Size	Units per Pallet (Land Transport)	Units per Pallet (Sea Transport)
1.06 qt (1 L)	(Not specified)	(Not specified)
1.06 gal (4 L)	96	120
3.96 gal (15 L)	33	44

STORAGE

Store in original, tightly sealed containers in a cool place. Protect from freezing and direct sunlight. Maximum shelf life: 18 months from manufacture date.

WASTE MANAGEMENT

Refer to the Safety Data Sheet and comply with local regulations.
Containers are paper with intermediate polyethylene lining.
Protect the environment: do not dispose of waste down drains; use the nearest recycling center.

SAFETY INFORMATION

Check the most recent Safety Data Sheet for health, physical, ecological, and toxicological information.
Avoid direct skin contact. Alkaline product: use protective gloves and goggles.
Keep out of reach of children.

DISCLAIMER

The values and characteristics stated result from intensive development and practical experience. Application recommendations, verbal or written, are advisory to aid product selection and do not constitute a contractual legal relationship.
Users must verify the product's suitability for their intended use. General construction standards must be respected.
We reserve the right to modify the product or its application methods. This edition supersedes all previous versions.