

TECHNICAL DATA SHEET

Edition 11.08.2025
OriGen® GrafGen
Matt / Eggshell / Semi-gloss Finish

PRODUCT DESCRIPTION

OriGen® GrafGen is an environmentally friendly, breathable, and preservative-free exterior paint. Available in matte, eggshell, and semi-gloss finishes, it features proprietary CaCO_3 ® technology and a next-generation Bio-Based (VAE) formulation that delivers a durable, long-lasting coating with protection against fungi and algae. Suitable for both new construction and repainting, GrafGen is ideal for surfaces exposed to high humidity. It also boasts a minimal carbon footprint, making it perfect for residential applications, indoor and outdoor decoration, and sustainable construction projects.

KEY FEATURES

- High coverage capacity
- Matte mineral aesthetic
- Excellent adhesion; non-film-forming
- Highly breathable and water-repellent
- Prevents condensation
- Free from VOCs and formaldehyde emissions
- Preservative-, solvent-, and microplastic-free
- Designed according to circular economy principles
- Titanium dioxide content < 5%
- Organic content < 5%
- Class 1 scrub resistance (EN 13300)

TECHNICAL PROPERTIES

Property	Value
Specific Gravity	1.6 ± 0.05 g/cm³
pH	9 ± 1
Viscosity	100–120 U.K.
Solids by Weight	70 ± 5%
Base	Bio-Based (VAE)
Appearance	Dense liquid
Finish	Matt / Eggshell / Semi-gloss
VOC Content	< 1 g/L

Property	Value
Fire Resistance	B2, Sd0

COVERAGE

48–70 square feet per gallon (based on 2 coats; approx. 400-650 sq ft per 4-gallon container).

Actual coverage depends on the surface type and condition, tools used, and application method.

On-site testing is recommended to determine precise consumption.

APPLICATION SURFACES

- Plaster and gypsum
- Fillers and mineral-based substrates
- Prefabricated panels
- Uncoated wallpaper
- Brick, perlite
- Other porous or mineral surfaces

SUBSTRATE PREPARATION

- Ensure the substrate is clean, dry, and free from dust, salt, grease, and loose paint.
- Remove previous coatings that are not well-adhered using mechanical or pressurized water cleaning.
- If mold, algae, or mildew are present, clean thoroughly with specific biocidal products.
- For absorbent surfaces: Apply Primer L44.
- For wood, rust-free metals, or non-porous surfaces (e.g. tiles): Apply a bonding primer (Primer TodoTerreno).
- Paints forming impermeable films must be stripped or mechanically removed.
- Mineral substrates must be at least **28 days cured**.
- Avoid applying on surfaces in permanent contact with water.
- In high humidity or contaminated environments, use a water-repellent sealer to reduce moisture and pollutant absorption.
- For unusual pathologies or special conditions, consult the Technical Department.

APPLICATION CONDITIONS

- Ambient and surface temperature: **41°F to 104°F**
- Do not apply in direct sunlight or on overheated substrates.

PRODUCT PREPARATION

- Stir thoroughly before use.
- Reduce with **5–10% clean water** (approx. **13–19 fl oz per gallon**).

APPLICATION METHOD

- **First coat:** Apply with spray, brush, or roller.
- **Second and third coats:** Apply irregularly using a round brush or flat trowel.
⚠️ Avoid excess product per layer to prevent micro-cracking.

For technical inquiries:

✉️ info@origenpaints.com

DRYING & CURING TIMES

- **Second coat:** After 2–4 hours at **77°F** and 60% relative humidity
- **Full drying:** After 24 hours
- **Complete curing:** After 10 days — do not clean or scrub before this time to ensure optimal hardness and durability.
Drying time may vary with temperature and humidity.

TOOL CLEANING

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

PACKAGING FORMATS

- **0.25 gal (32 fl oz)**
- **1 gal (128 fl oz)**
- **4 gal (512 fl oz)**
- **5 gal (640 fl oz)**

STORAGE CONDITIONS

- Store in original, sealed packaging
 - Keep in a cool, dry place, away from frost and direct sunlight
 - Maximum shelf life: **24 months** from the production date
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WASTE MANAGEMENT

- Follow local regulations and consult the Safety Data Sheet (SDS)
- Packaging is made of recycled plastic
- Do not dispose of waste through drains — use local recycling centers
- Reuse leftover paint whenever possible to reduce environmental impact

SAFETY INSTRUCTIONS

- Refer to the latest Safety Data Sheet (SDS) for physical, toxicological, ecological, and safety data
- Keep out of reach of children

DISCLAIMER

The technical values and recommendations provided are based on extensive laboratory testing and field experience.

These are guidelines only and do not constitute a binding legal warranty. The end user must verify the product's suitability for each specific case and comply with applicable building standards and regulations.

OriGen® reserves the right to update this information without prior notice.

This edition supersedes all previous versions.