TECHNICAL DATA SHEET

TerraGen™ PU Water-Repellent

One-Component Polyurethane Protective Sealer — Transparent Matte / Tinted (optional)

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01 PRODUCT DESCRIPTION

OriGen TerraGen™ PU Water-Repellent is a one-component coating based on polyurethane resins, designed to protect surfaces exposed to humidity, condensation, and intensive cleaning. It forms a continuous, water-repellent layer that resists attack from cleaning products such as bleach and degreasers. It is ideal for protecting lime micro-mortar floors and walls in bathrooms and kitchens, and is well suited to sealing continuous mineral coatings such as lime or cement mortars and microcement, delivering a durable, seamless, and aesthetically refined finish.

02 KEY FEATURES

- High resistance to cleaning agents such as bleach and degreasers
- Repels liquid water; reduces water-vapor permeability
- Elastic, continuous, and seamless – 50–60% elongation
- Excellent adhesion to mineral systems
- Aesthetic, durable finish – transparent matte or tinted (optional)
- Suitable for interior and exterior use
- One-component polyurethane formulation – no component mixing required

03 TECHNICAL PROPERTIES

PROPERTY	VALUE
Type	**One-component polyurethane**
Appearance	**Fluid liquid**
Finish	**Transparent matte**
Color	**Colorless; other colors on request**
Chemical Resistance	**High against bleach and degreasers**
Density	**1.15–1.25 g/cm³**
Tack-Free Time	**6–8 hours**

PROPERTY	VALUE
Light Foot Traffic	**24 hours**
Full Cure / Max. Resistance	**7 days**
Water behavior	**Repels liquid water; reduces water-vapor permeability**
Adhesion to Substrate	**> 145 psi (1 MPa) with a suitable primer**
Elasticity	**50–60% elongation**
UV Resistance	**Medium**

04 COVERAGE

Approx. 0.7–1.0 oz/sq.ft (200–300 g/m²)

PER COAT

2 coats are recommended for maximum protection.

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

- Protection of lime micro-mortar floors and walls in bathrooms and kitchens
- Sealing of continuous-mortar floors in technical rooms, bathrooms, and spas
- Water-repellent, decorative finishes on terraces and in commercial kitchens
- Substrates such as concrete, microcement, mineral mortars, or epoxy-primed surfaces
- Prior protection of slabs or walls exposed to moisture; improves adhesion on porous or irregular surfaces
- Compatible with hydraulic and aerial lime mortars, breathable stucco systems, and silicate- or silicone-based mineral coatings

06 SUBSTRATE PREPARATION

- The substrate must be clean, dry, grease-free, and free from dust, salts, loose parts, and imperfections.
- Substrate moisture content must be below **4%**.
- If algae, mold, mildew, or other impurities are present, clean thoroughly and remove completely using specific biocidal products.
- On weak or poorly cohesive substrates, brush and treat with the mineral consolidant *MinerGen*.
- On substrates showing salt efflorescence, brush and apply Neutralysalt Primer.
- On non-porous substrates, apply a bonding bridge to ensure proper anchoring of the product.

- On very absorbent (or low-porosity) substrates, apply an adhesive mortar (left scratched or brushed) and allow to dry for 24 hours.
- On very porous or mineral substrates, apply a prior epoxy or PU primer.
- May be applied over lime mortars once fully cured (minimum 7 days).
- For any substrate pathology not specified above, contact the Technical Department.

07 APPLICATION CONDITIONS

- Ambient temperature: **50°F to 86°F (+10°C to +30°C)**
- Relative humidity below **80%**
- Avoid condensation, rain, or application in direct sunlight.

08 PRODUCT PREPARATION

- One-component product: no component mixing required.

09 APPLICATION METHOD

- Apply by roller or airless sprayer (depending on viscosity and area).
- Apply one or two coats, with a recommended total thickness of **12–24 mils (300–600 microns)**.
- For a second coat, wait 6–24 hours depending on ambient temperature.

For technical inquiries: marketing@origenpaints.com

10 DRYING & CURING TIMES

- **Tack-free:** After 6–8 hours
- **Recoat:** After 6–24 hours, depending on ambient temperature
- **Light foot traffic:** After 24 hours
- **Full cure / maximum resistance:** After 7 days
- Drying time may vary with temperature and humidity.

11 TOOL CLEANING

Clean all tools with warm water immediately after use.

12 PACKAGING FORMATS

- **5 gal** (640 fl oz) – factory-premixed, ready to use

13 STORAGE

- Keep in the original, tightly closed containers.
- Store in a cool, dry place at **50°F to 77°F (+10°C to +25°C)**, protected from frost and direct sunlight.
- Shelf life: **24 months** from the production date.

14 WASTE MANAGEMENT

- Consult the Safety Data Sheet (SDS) and follow local regulations.
- Respect the environment: do not dispose of residues through drains – use the nearest local recycling facility.

15 SAFETY INDICATIONS

- Wear protective gloves and safety goggles.
- Irritant in its liquid state. Do not ingest. Keep out of reach of children.
- Ensure adequate ventilation during application and drying.
- Refer to the latest version of the Safety Data Sheet (SDS) for physical, toxicological, ecological, and safety data.

The stated values and characteristics are the result of intensive development work and practical experience. Application recommendations, 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 product's suitability 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.