



GRAPHENSTONE

**Biosphere**  
Lime exterior paint  
Technical Data Sheet

Mineral ecological paint specially suitable for exterior walls with matt finish. Thanks to its formula based on 100% artisanal lime, the product absorbs CO2 and it has an excellent breathability that prevents condensation. Made with Graphenstone Technology for greater resistance and durability. Biosphere is ideal for construction, restoration and repainting.



**Features**

- High covering power.
- Absorbs CO2 (5.5kg per 15L - 15.3Lb per 5Gal)
- Natural matte finish.
- White and Soft Selection colours.
- High quality lime and Graphenstone technology.
- Breathable. Prevents condensation.
- High adhesion, strength and durability.
- Excellent flexibility. No cracking.
- Environmental Product Declaration.
- CE Marking\*
- High SRI rating\*. Improved energy efficiency.
- Ecolabel\*
- Global GreenTag LEVEL B.
- Cradle to Cradle Certified™ GOLD\*/SILVER  
*\* Certified for Biosphere White*

**Pack size**

1 l, 1 Gal, 4 l, 15 l and 5 Gal.

**CE marking**

EN1504-2 Surface protection system for concrete - Moisture control:

- Adhesion strength** ≥ 0.8 N/mm<sup>2</sup>
- Permeability** Class 1
- Water absorption from capillarity** w < 0.1 kg/m<sup>2</sup>·h<sup>0.5</sup>
- Fire resistance** A1

**Yield/Coverage**

White: 5-7 m<sup>2</sup>/l (2 coats).  
Colours: 6-8 m<sup>2</sup>/l (2 coats).  
Depends on the type and state of the substrate, tools and application. The exact consumption should be determined by sampling on site.

Technical properties	White	Colour
<b>Specific weight</b>	1.47 ± 0.05 g/cm <sup>3</sup>	1.48 ± 0.05 g/cm <sup>3</sup>
<b>pH</b>	13 ± 1	13 ± 1
<b>Viscosity</b>	[80-120] U.K.	[80 - 120] U.K.
<b>Solid content</b>	57 ± 5 %	60 ± 5 %
<b>Washability (EN 13300)</b>	Class 1	Class 1
<b>SRI (ASTM E1980-11)</b>	100 ± 0.3	-
<b>LRV (BS8493+A1)</b>	89,4%	-
<b>Nature</b>	Aerated lime	Aerated lime
<b>Appearance</b>	Dense liquid	Dense liquid
<b>Finish</b>	Matte White	Matte. Soft Selection colours
<b>VOCs content</b>	< 1 g/l	< 1 g/l



### Storage

Store in original container. Keep tightly sealed in cool, dry place. Do not store in extremes of temperature, avoid direct exposure to sunlight and protect from frost. Unopened, storage stability is 24 months from date of manufacture. Product may thicken without losing its efficacy. Shake well before use.

### Substrate preparation

Render, plaster, brick, concrete, old paintwork.

The substrate must be dry, firm, well adhered, even and free of any impurities that could hinder the perfect bonding of the product.

Any organic growth and/or other impurities should be removed by thorough cleaning using specific products for this purpose.

- Old glossy or satin paints and putties: clean the surface and sand softly.
- Absorbent substrates (e.g. concrete block or brick): apply *AmbientPrimer*. Very absorbent substrates (clay, adobe or rammed earth): apply *Minerseal*. If the substrate is wood, metal (without corrosion or oxidation) or non-porous: apply *Four2Four*.
- If the substrate presents any complications, check the Graphenstone Application Manual or contact our Technical Department.

### Product preparation

Shake and dilute with 5-10% water.

Ensure good mixing. Avoid excessive shaking to minimise bubble occlusion.

### Application method

Apply 2 or 3 coats evenly. Paint in sections, starting with borders. Without overloading the roller, dip it lightly into the paint to spread evenly. Do not paint over areas that are drying

and avoid splices. Please note that an excess of product per coat can generate microfissures.

As it is a lime-based paint it is very important to respect the drying time between coats to realise optimal paint coverage.

### Drying

At 25 °C (77 °F) and 60% relative humidity: 2-4 hours between coats and 24-hour drying time per coat.

Total curing occurs after 30 days, presenting good hardness and resistance. It is advisable not to clean and/or scrub during this period.

### Ambient conditions

The working temperature (ambient and substrate) must be between +5 °C and +40 °C (41 °F and 104 °F). Do not apply under direct sunlight or on surfaces heated by the sun.

### Tools

Roller, brush, airless or other type of projection.

Clean tools after use with warm water.

### Notes

Mineral substrates must be at least 28 days old.

The surfaces to be painted must be resistant to high alkalinity.

Do not apply to surfaces in permanent contact with water. In case of rain, let the surface dry completely before application.

It is recommended to protect the treated surface from the rain for 4 days.

In tropical or highly polluted areas, it is recommended to protect with *Hydroxeal* to minimize the absorption of water and impurities.

Parts that are not going to be treated should be protected (glassware or carpentry).



Should there be any strict aesthetic requirements, it is recommended to carry out preliminary tests.

Do not mix with other brands to maintain product efficacy.

### Complementary products

It is recommended to use the Graphenstone® product range for complementary actions according to the application, repair and/or finish required. Please refer to the corresponding Technical Data Sheets.

### Usage warnings

None, particularly in situations where normal product application is expected and by people without any specific medical conditions. Alkaline product, protect skin and eyes especially. Do not inhale the product. Keep out of reach of children.

### Waste management

According to local legal regulations. The containers are made of polypropylene. Please contribute to the protection of the environment, do not throw waste down the drain and use the nearest recycling point.

### Sustainability gesture

Minimise product waste by carefully estimating the amount you will need. Store any unused product for future use according to the "Storage" guidelines.

### Safety information

For information regarding safety, physical, ecological and toxicological details please see the latest version of the product's Material Safety Data Sheet.

### Technical support

For further information, please contact your local distributor or manufacturer.  
([technicalsupport@graphenstone.com](mailto:technicalsupport@graphenstone.com)).

*The information provided is given in good faith, based on IEdISA's current knowledge and experience of the product, when correctly stored, handled and applied, in normal situations and according to IEdISA's recommendations. The Technical Data Sheet serves for information and advice, but is not legally binding. In particular, it does not exempt the user from test and check the suitability of the product for the desired application and purpose. IEdISA reserves the right to make modifications that improve the product or its application. This edition invalidates previous editions.*

Date updated: 07-2023