

Biosphere Premium

Version: mar-21

Biosphere Premium is a natural paint with a matte white finish suitable for exterior walls. Ideal for construction, restoration and repainting, it absorbs CO₂, is free of all toxic substances and also highly breathable. The product contains lime which acts as a natural preservative thus eliminating the use of harmful chemicals and/or carcinogenic materials. Manufactured with Graphenstone technology, providing resistance, durability and prevention of condensation.

PRODUCT DESCRIPTION

Features:

High covering power.
Absorbs CO₂ (5.5kg per 15L - 15.3Lb per 5Gal)
Natural matte finish.
High quality lime and Graphenstone Technology.
Breathable. Eliminates Condensation.
Outstanding adherence, resistance and durability.
Excellent flexibility. No Cracking.
Suitable for exteriors.
Free of VOC emissions and formaldehydes.
Cradle to Cradle Certified™ GOLD.
GreenRate Certified™ Level A.
Environmental Product Declaration.



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



Adhesion strength	≥ 0.8 N/mm ²
Permeability	Class 1
Water absorption from capillarity	w < 0.1 kg/m ² .h ^{0.5}
Fire resistance	A1

Yield/Coverage:

Between 5-7 m²/L or 200-285 Sq.Feet per Gallon (2 coats). However, exact yield depends on type and condition of substrate, as well as tools used. Exact consumption should be determined by making onsite sample.

Finish:

White matte.

Pack Size:

1L, 1Gal, 4L, 12.5L, 15L and 5Gal.

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.

Technical properties:

Specific weight	1.47 ± 0.05 g/cm ³
pH	13 ± 1
Viscosity	[80-120] U.K.
Solid content	57 ± 5 %
Washability (EN 13300)	Class 1
SRI (ASTM E1980-11)	100 ± 0.3
LRV (BS8493+A1)	89,4%
Nature	Aerated Lime
Appearance	Dense Liquid
Finish	Matte
VOCs content	< 1 g/l
VOCs emission	Class A+

CE marking:



APPLICATION METHOD

Substrate Types:

Plaster, gypsum, mortars, old paint, prefabricated panels and un laminated wallpaper, brick or perlite.

Substrate Condition:

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

Substrate Preparation:

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

Depending on the nature of the surface, the actions prior to application of the paint vary as follows:

- Old glossy or satin paints and putties: clean the surface and sand softly.
- Absorbent substrates (e.g. concrete block or brick): apply *AmbientPrimer Premium*.
- Very absorbent substrates (clay, adobe or rammed earth): apply *Minerseal Premium*.
- If the substrate is wood, metal (without corrosion or oxidation) or non-porous (e.g. glazed tiles, phenolic panel, epoxy or polyurethane paints): apply *Four2Four Premium*.

If the substrate presents any complications, check the Graphenstone Application Manual or contact our *Technical Department*.

Product preparation:

Shake and dilute with water using 5-10% per litre of product (Approx. 100-150ml water p/L or 13-19 fl. oz. of water p/Gal of paint). 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 micro-fissures.

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.

Tool cleaning:

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.

For decorative glazing and/or the application of self-adhesive templates or other types of masking, please allow 36 hours to elapse.

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.

DECLARATIONS

The manufacturer declares that, due to the composition of the product, it contains no hazardous materials, no plasticizers and is free of VOC emissions.

For further information please check our website:
<http://graphenstone.com/Graphenstone-Global-Certificados.html>

ADDITIONAL INFORMATION

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).

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.

