

## AmbientPro+ Premium

Version: oct-17

*AmbientPro+ Premium* is a natural photocatalytic paints with graphene technology. It decomposes organic substances and inorganic gases by means of light, whether natural or artificial on titanium oxide nanoparticles, the photocatalytic component. It is ideal for decontamination of pollution in cities. It also favors the elimination of odours from domestic animals, tobacco, etc.

### PRODUCT DESCRIPTION

#### Features:

- Photocatalytic.
- Decomposes contaminants: NOx, VOC's, CO, SOx, formaldehydes, etc.
- Eliminate odours.
- Active in range of visible and UV light (10-750 nm).
- Suitable for interior and exterior.
- Absorbs CO<sub>2</sub> (4.8 kg/15 l).
- Contains high quality lime and graphene fibres.
- Breathable. Avoids condensation.
- Good washability.
- Tough, long-lasting high adherence.
- Excellent flexibility. Not cracking.
- Free of VOCs and formaldehyde emissions.
- GreenRate™ LEVEL A

#### Technical properties:

|                              |                |   |
|------------------------------|----------------|---|
| Specific weight              | ISO 2811-1     | 1.4 ± 0.05 g/cm <sup>3</sup>                            |
| pH                           | -              | 12.5 ± 1  |
| Viscosity                    | UNE 48076      | [60 - 130] U.K.   |
| Solid content                | -              | 55 ± 5 %  |
| Washability                  | EN 13300       | Class 1   |
| Permeability to water vapour | EN 1062-1      | Class 1<br>S <sub>D</sub> < 0.14 m                      |
| Capillary water absorption   | EN 1062-1      | Class 3<br>w < 0.01 kg/m <sup>2</sup> ·h <sup>0.5</sup> |
| Adhesion pull-off strength   | EN 1542        | > 0.8 N/mm <sup>2</sup><br>(flexible system)            |
| Fire performance             | EN 13501-1     | A1  |
| Nature                       | -              | Aerated lime  |
| Appearance                   | -              | Dense liquid  |
| Finish                       | -              | Matte   |
| VOC content                  | ASTM D2369-10  | < 1 g/l   |
| VOC emissions                | ISO 16000-3/-6 | Class A+  |

#### Yield:

6-9 m<sup>2</sup>/l (2 coats). It depends on the type and condition of the substrate. The exact consumption must be determined by the means of a sampling of the work.

#### Colours:

White matte. For coloured paint, please consult factory.

#### Format:

Available in pots of 1 l, 4 l, 12.5 l, 15 l.

#### Storage:

Keep in original pack, closed and in a cool and dry place. Keep from freezing and avoid direct sun exposure. Unopened, it may be conserved for at least 12 months from the date of manufacture. The product may thicken without losing its properties; shake well before use.

### APPLICATINO INSTRUCTIONS

#### Application surfaces:

It can be applied on all types of surfaces common in construction: mortar, brick, concrete, old paintings, etc.

#### Conditions of the substrate:

The substrate must be dry, firm, well-adhered and free from any impurities that may hinder the product from setting fully.

#### Preparation of the substrate:

If the substrate presents algae, mold, fungi and / or other impurities, it is recommended to do a thorough cleaning, eliminating in its entirety and with specific products for this purpose.

If the substrate has poor adhesion (sandy, dusty, etc.), brush and consolidate with *Minerseal Premium* diluted 3:1 with water.

If the substrate has salt deposits, brush and apply *Neutralysal Premium*.

If the substrate presents surface cracks, the recommendation depends on the width of the crack:

1-3 mm Apply *Füllmasse Premium* (with a fiberglass

|         |   |
|---------|---|
|         | mesh if >1 mm).   |
| 3-10 mm | Chip superficially and apply <i>Naturglue Premium</i> with mesh |
| >10 mm  | Requires architectural assessment.                              |

If the substrate presents scaling/blistering of the existing paint, first remove areas that do not adhere by scraping and brushing.

If the substrate presents deterioration of mortar, first remove areas that do not adhere by scraping or pricking and clean up by brushing or plenty of water. The recommendation depends on the damaged depth:

|         |  |
|---------|--|
| < 3 mm  | Apply <i>Ecoputty Premium</i> .  |
| 3-8 mm  | Apply <i>Naturglue Premium</i> with mesh.  |
| 8-20 mm | Apply <i>MortarBase Premium</i> and finish with <i>MortarFine Premium</i> (<10 mm) with mesh.  |
| >20 mm  | Apply <i>Naturglue Premium</i> (5 mm), apply tile according to width of the cavity (1-5 cm) and apply <i>Naturglue Premium</i> (<10 mm) with a mesh. |

If the substrate presents pathology such as structural cracks, moisture by capillarity, condensation or filtration, etc.; then it is necessary to resolve the structural problems first.

Depending upon the nature of the substrates, the previous actions vary as follows:

- Old glossy paint or putty: clean surfaces and sand slightly.
- If the substrate is wood or metal (without corrosion or oxidation) or without porosity: apply *Four2Four Premium*.

### Product preparation:

Stir and dilute with water to 10-15% of the product weight (150-200 ml of water per liter of product approx.), ensure a homogeneous mixture. Avoid excessive shaking to minimize bubble occlusion.

### Application method:

Apply previously one coat of *AmbientPrimer Premium* diluted 1:1 with water. After 24 hours, apply 2 or 3 coats evenly. Paint in sections starting with the

borders. Without soaking the paint roller, pass the roller to spread out the paint correctly. Do not paint on areas that are drying, avoid overlapping. An excess of product by layers can generate micro-cracks.

### Drying:

In conditions of 25 °C and 60% relative humidity: 2-4 hours between layers and 24 hours drying.

The carbonation process mainly occurs during the first 30 days. It is recommended to avoid cleaning and/or rubbing during that time.

### Environmental conditions:

The work temperature (environment and substrate) must be between +5 °C and +32 °C. Do not apply in direct sunlight or on supports heated by the sun.

### Tools:

Roller, brush, airless or other type of projection.

### Airless application:

Spray angle: 30°

Spray distance: 50-60 cm

Tip size: 0.027 in.

Minimum strength of machine: 1750 W

Machine filter: 30-40 mesh.

### Tool cleaning:

Clean tools after use with warm water.

### Notes

To ensure maximum photocatalytic activity the walls should be kept as clean as possible. To achieve this, clean with water, avoid rubbing abrasively.

The mineral substrate must be at least 28 days old.

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

Do not apply to surfaces in constant contact with water.

In case of rain, let the substrate dry before applying.

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

Do not apply decorative glazing and/or self-adhesive templates or other kinds of masking.

The parts that are not going to be treated must be protected (glass, wood, etc.).

Should there be strict aesthetic requirements, it is recommended to perform prior tests.

Do not mix with other products or specific properties may change.

### Complementary products:

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

### DECLARATIONS

The product has the following certifications: GreenRate Level A and Environmental Product Declaration.

The manufacturer declares that the composition of the product, it does not contain hazardous substances and it is free of VOC emissions.

For more information, please refer our website: <http://graphenstone.com/Graphenstone-Global-Certificados.html>

### ADDITIONAL INFORMATION

#### Usage warnings:

None in particular for normal use and people who do not have special pathologies. Alkaline product, protect skin and eyes especially. Apply with good ventilation, do not inhale product. Keep out of reach of children.

#### Waste management:

According to local legal provisions. The pots are made of recycled polypropylene. Help protect the environment, do not throw waste through the drain and use the nearest recycling centre.

#### Responsible gesture:

Minimize the product waste by estimating the amount you will need. Recover the unused mortar to give it a new use, keep it under the Storage section.

#### Safety information:

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

#### Technical support:

For further information, please contact with local distributor or manufacture:

[technicalsupport@graphenstone.com](mailto:technicalsupport@graphenstone.com)

The information provided is given in good faith, based on current knowledge and IEdiSA's experience with the products when they are properly stored, handled and applied in normal situations and in accordance with the recommendations of IEdiSA. The Technical Specifications sheet is useful for information and consulting, but is not legally binding. In particular, it does not exempt the user from testing and verifying the suitability of the product for the desired application and purpose. IEdiSA reserves the right to modifications that improve the product or its application. This version invalidates previous ones.