

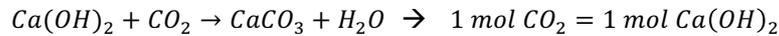


**Industria Española para el Desarrollo
en Investigación 2100, S.A. (IEdiSA)**

Pol. Ind. Poliviso, c/ Carpinteros, 25
41520 El Viso del Alcor, Sevilla - ESPAÑA

Manufacturer Declaration

D. Antonio León Jiménez with ID 44954686Y acting in the name of the society Industria Española para el Desarrollo e Investigación 2100, S.A. with CIF A91854877 declares that *Graphenstone®* products lime-based absorb carbon dioxide (CO₂) during its drying process due to the following stoichiometric reaction:



Below is described absorption of CO₂ in kilograms for a volume of 15l:

TRADENAME	CO ₂ ABSORPTION
Ecosphere Premium	4.9 kg
Ecosphere Premium Eggshell	4.3 kg
Biosphere Premium	5.5 kg
GCS Interior Premium	5.0 kg
GCS Exterior Premium	4.8 kg
AmbientPro+ Premium	5.0 kg
Filler Premium F10/F20	3.9 kg
Stuki Premium	3.1 kg
Kratzputz Premium	2.3 kg
Füllmasse Premium	2.7 kg

Unlike ordinary paints, once painted Graphenstone® onto your wall, absorbs carbon dioxide to partially offset the overall lifetime impact of the paint.

INDUSTRIA ESPAÑOLA PARA EL
DESARROLLO E INVESTIGACIÓN 2100, S.A.
C.I.F. A-91854877
c/ Carpintero, 7
41520-EL VISO DEL ALCOR (Sevilla)

ANTONIO LEÓN
President & CTO
August 1st, 2017



ANNEX I: CALCULATION OF CO₂ ABSORPTION

Calculation of grams of Ca(OH)₂:

$$g \text{ Ca(OH)}_2 = \% \text{ Ca(OH)}_2 \cdot \rho \cdot V$$

where:

g Ca(OH)₂: weight of Ca(OH)₂ in a specific volume.

% Ca(OH)₂: percentage of pure Ca(OH)₂ of the product.

ρ: specific weight of Ca(OH)₂.

V: packaging volume.

Calculation of CO₂ absorption:

$$1 \text{ mol CO}_2 = 1 \text{ mol Ca(OH)}_2 \rightarrow \frac{g \text{ Ca(OH)}_2}{Pm(\text{Ca(OH)}_2)} = \text{mol Ca(OH)}_2 = \text{mol CO}_2$$

$$\text{mol} \cdot Pm(\text{CO}_2) = g \text{ CO}_2$$

where:

Pm (Ca(OH)₂): molecular weight of Ca(OH)₂, 74 g/mol.

Pm (CO₂): molecular weight of CO₂, 44 g/mol.

ANNEX II: QUALITATIVE TEST

The image shows that effectively CO₂ is absorbed during the drying of the paint in qualitative way.

Notes: quantitative results are not representative in the absence of a standardized standard.



Wet Painted
Glass Plate
Inside

Reduction from 512
ppm to 374 ppm
27% absorption
seen



NOTES: ENVIRONMENTAL CLAIMS

- 3 buckets of 15 litres absorb the same CO₂ than one tree of 250 kg for 1 year of growth.
- CO₂ absorption property of the paint is referred to the use phase of the paint.
- Claim is only based to the CO₂ absorption and no other properties of the tree.

