

PHOTOACTIVE & SUPER-HYDROPHOBIC COLOURED NANOPAINT



**SPECTRUM
NANOTECH**
SOLUTIONS FOR A MODERN WORLD

PRODUCT DESCRIPTION:

This state-of-the-art air purification nano-paint is a single pigmented component that dries at ambient temperature, reacts with the light and has anti-pollution properties. Suitable for mortar facades, single skin block concrete and mineral surfaces in general, without the need for primers or fasteners.

PROPERTIES:

- Durability up to **20 years**.
- Available in all RAL colours.
- Easy to apply with roller, brush and eco static spray application.
- Water-based formulation with last generation materials and 100% mineral.
- No need for previous applications such as fasteners or primers.
- Adhesion in mortars, monolayer and surfaces of all kinds with **three-dimensional penetration**.
- **Lotus Effect Properties:** super-hydrophobicity.
- Breathable product that repels dirt, water and moisture.



Lotus Effect Properties



- **Photoactive Nano-Paint:** Reacts with direct or indirect light and eliminates unwanted organic matter like viruses and bacteria.
- Environmental decontamination, selected by CIEMAT, **Spain's Ministry of the Environment**, INECO, EU LIFE.
- Breaks-down environmental pollutants by decomposing the harmful materials into water, oxygen, nitrates and other inert components.
- Anti-bacterial and anti-virus spectrum: improves air quality by creating a **healthier environment**.
- Excellent **self-cleaning effect** with light and in wet weather giving pristine surface finish.
- **Respects the environment**, because of its quality and material formulation.

APPLICATION FIELDS:

- Exterior and Interior coating.
- Ideal for highly polluted areas, such as metropolitan cities, as it will improve air quality.
- Excellent for applications in schools, airports, gyms, shopping malls, hotels, restaurants, hospitals, and general construction or public areas in general.
- Applicable on paintings of conventional acrylic facades properly sanitized.

APPLICATION:

In case of poor conditions surfaces, it is recommended to first improve all affected areas by removing all materials that is not attached to make the sanitation process easier. Clean any dirt and dust you may have with water and neutral pH detergents, as needed. The surfaces need to be clean and dry, without the need for fasteners.

Apply with the use of paint rollers, brushes or eco static gun spray, starting from the bottom up to prevent pre-impregnation

of the product on the surface. By starting from the top, the coating will run down the surface and there could be an uneven impregnation, which will make it difficult to create an even surface. For new constructions, it is suggested for the first layer to dilute between 5% and 10% with water for a better impregnation (preferably distilled), especially on new substrates (except plasterboard).

The ideal temperature range for the application is 5 to 27°C, in a dry environment. If you need to re-apply, let the surface dry for a day

DRYING:

Please note that environmental conditions always influence the drying of paints.

Touch-Dry: 15 / 30 Min (23°C)

Full Dry: 24 hours (23°C)

STORAGE:

Minimum 1 year in original container, closed in dry conditions of ambient temperature.

After this period, rigorous agitation or filtering is required.

Always store in plastic containers.
Maintain in temperatures between **5 and 35° C.**

DELIVERY FORM:

Single units in 10Kg or 20Kg plastic barrels.

COLOUR:












White / RAL colours on request.

ASPECT:

Creamy Liquid.



TECHNICAL INFORMATION:

-  **Binding type:** Silicon water based.
-  **pH:** 3-4.
-  **Particle size:** 8nm.
-  **Crystal structure:** Anatase.
-  **Agglomeration index:** 2-4.
-  **Density:** 1.00751.01 g/cm3.
-  **Performance on porous surfaces:** 1kg/12m² to 15m².
-  **Active material content:** 20%.
-  **Anti-pollution test:** Tested by CIEMAT ISO 22197-1.
-  **Long-life product:** Resistance to weathering and aging.
-  **Antimicrobial Solution:** The surface is coated against bacteria and viruses.

FINISHES



White Finish



Colour Finish



DOES NOT CONTAIN
HARMFUL MATERIALS





RESPECT THE
ENVIRONMENT



DOES NOT CONTAIN
SOLVENTS

**SELECTED BY CIEMAT AS THE BEST REACTIVE SOLUTION
FOR ENVIRONMENTAL DECONTAMINATION**

COMPARISON OF THE EMISSION OF INTERIOR NANO PAINTS AND THE LIMITS DEFINED IN CATEGORY A + VOC	 SPECTRUM NANOTECH SOLUTIONS FOR A PROGRESSIVE WORLD	 FRENCH DANES LAB INTERIEUR A+ A+ A B C
Formaldehyde	< 0	< 10
Acetaldehyde	< 0	< 200
Toluene	< 0	< 300
Trichlorethylene	< 0	< 250
Ethylbenzene	< 0	< 750
Xylene	< 0	< 200
Styrene	< 0	< 250
2-Butoxyethanol	< 0	< 1000
1, 2, 4-Trimethylbenzene	< 0	< 1000

HEAVY METAL CONTENT OF INTERIOR NANO PAINTS	
Lead	< 0.00%
Hexavalent Chromium	< 0.00%
Mercury	< 0.00%
Arsenic	< 0.00%
Barium	< 0.00%
Selenium	< 0.00%
Antimony	< 0.00%

ENVIRONMENTAL DECONTAMINATION SOLUTION, TESTED AND SELECTED BY CIEMAT, SPANISH MINISTRY OF THE ENVIRONMENT, E.U. LIFE & MINOX.

SELECTED AS THE BEST CATALYTIC EFFECT ON THE MARKET IN 2018.

Ciemat



GOBIERNO DE ESPAÑA

MINISTERIO DE AGRICULTURA Y PESCA, ALIMENTACIÓN Y MEDIO AMBIENTE

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