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Proshield Premium

Version: jan-18

Proshield Premium is a conductive paint with graphene technology. These are carbon particles, contained in an emulsion of a pure acrylic of high quality in aqueous medium. Designed for protection against high and low frequency electromagnetic radiation.

PRODUCT DESCRIPTION

Application area:

It is ideal for protection against electromagnetic radiation of telephone towers, radio antennas, television repeaters and / or for the protection of data interception of wireless networks. Also, to amplify indoor signals that improve the productivity of RFID, WiFi, etc. systems. Recommended in hospitals, homes, offices, shops, laboratories, recording studios, etc.

Features:

Electric conductivity.

Protection of high frequency radiation.

Protection of low frequency electric field.

30 dB of attenuation at 900 MHz (IEEE 299:2006).

Contains graphene fibres.

Does not contain metallic components.

Suitable for interior and exterior.

Low VOCs emissions.

Technical properties:

Specific weight	$1.15 \pm 0.05 \text{ g/cm}^3$	
SUBCING WEIGHT	1.10 + 0.00 0/611	

рΗ 7 ± 1

Viscosity [70-120] U.K. Solid content $38 \pm 5 \%$ Fire performance B-s1, d0

Nature Carbon particles in an acrylic emulsion

Appearance Dense liquid

Finish Matte VOC content < 1 g/IVOC emission Class A+

Yield:

4-5 m²/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.

Format:

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

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:

Plaster, gypsum, old paints, prefabricated plates and unpainted wallpaper, brick, 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 salt deposits, brush and apply Neutralysal Premium.

If the substrate contains a high moisture level, apply StopWater Premium diluted 1:1 with water and paint 24 hours before its application.

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

1-3 mm	Apply <i>MinerMastic Premium</i> (with a fiber-glass mesh if >1 mm).
3-10 mm	Chip superficially and apply Naturglue Premium with mesh
>10 mm	Requires architectural assessment.

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:

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< 3 mm	Apply Ecoputty Premium.
3-8 mm	Apply Naturglue Premium with mesh.
8-20 mm	Apply MortarBase Premium and finish with MortarFine Premium (<10 mm) with mesh.
>20 mm	Apply Naturglue Premium (5 mm), apply tile according to width of the cavity (1-5 cm) and apply Naturglue Premium (<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.
- Absorbent substrates (e.g. cement blocks, brick, plaster, etc.): apply AmbientPrimer Premium.
- Very absorbent substrates (clay, adobe, rammed earth, etc.): apply Minerseal Premium.
- If the substrate is wood or metal (without corrosion or oxidation) or without porosity: apply Four2Four Premium.

Application method:

Stir and apply two coats leaving the surface as even as possible. If necessary, dilute with water (maximum 75 ml per liter of product).

After drying, the product must be protected. It is recommended to place a plasterboard in sandwich mode or with Graphenstone® paint.

Drying:

In conditions of 25 °C and 60% relative humidity: 4-6 hours between layers and 24 hours for drying.

The total curing 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 support) must be between +5 °C and +40 °C. Do not apply in direct sunlight or on supports heated by the sun.

Tools:

Brush or short hair roller.

Tool cleaning:

Clean tools after use with warm water.

Notes

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 wa-

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

It is recommended to protect the treated surface from rain until its later protection.

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 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:

Being a conductive product, it is recommended for safety to connect the surface surface to an electrical

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ground. Make the connection for each discontinuous section to be shield. It is recommended that these connections be made by a qualified professional.

Regarding the paint, none in particular for normal use and people who do not have special pathologies. 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 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 substrate:

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

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

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