

Proshield Premium

Version: Oct-21

Proshield Premium is a conductive paint with Graphenstone technology designed to protect against high and low frequency electromagnetic radiation (EMR).

PRODUCT DESCRIPTION

Where to apply:

Ideal for protection against electromagnetic radiation from telephone towers (including 5G technology), radio antennas, television transmitters, external WiFi networks and other EMR/EMF emitting devices.

ProShield reduces electromagnetic pollution, as well as interferences between wireless networks in different spaces, improving effectiveness of RFID and WiFi systems. Recommended for commercial stores and warehouses, hospitals, domestic use, offices, laboratories, recording studios and server rooms.

Features:

Protection from high frequency radiation.
Low frequency electric field protection.
Attenuation from 32 dB to 900 MHz (IEEE 299:2006).
Contains graphene fibres.
Free of metallic particles.
Low in VOC emissions.

Technical properties:

Specific weight	1.15 ± 0.05 g/cm ³
pH	7 ± 1
Viscosity	60 ± 5 U.K.
Volume Solids	38 ± 5 %
Fire Resistance	B-s1, d0
Composition	Carbon particles in acrylic emulsion
Appearance	Dense liquid
Finish	Matte

Yield/Coverage:

Between 5-7 m²/L 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. Attenuation power measured for two-coats application with roller.

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 12 months from date of manufacture. Product may thicken without losing its efficacy. Shake well before use.

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 product 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*.
- 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*.

Application Method:

Shake and apply two coats, leaving the surface as even as possible. It is not necessary to dilute the product, it is ready to use as is.

After drying, the product must be protected. It is recommended to place a plasterboard panel as a sandwich or apply Graphenstone paint. It is not a finishing product.

Drying:

At 25 °C (77 °F) and 60% relative humidity: 4-6 hours between coats and 24-hour drying time per coat.

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:

Short-nap roller, brush or airless.

Tool cleaning:

Clean tools after use with warm water.

Notes:

Mineral substrates must be at least 28 days old.

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 rain until subsequent product applications.

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.

To maintain product efficacy do not mix with other brands.

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:

As it is a conductive product, it is recommended for safety reasons to connect the surface to be screened to an electrical ground. Make the connection for each discontinuous section to be screened. It is recommended that these connections be made by a qualified professional.

None, particularly in situations where normal product application is expected and by people without any specific medical conditions. 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.