

Proshield

Shielding Paint

TECHNICAL DATA SHEET

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

Reduces electromagnetic pollution and crosstalk between wireless networks in different rooms, improving the productivity of RFID and WiFi systems.

FEATURES

Grounding is recommended
Protection from high frequency radiation
Low frequency electric field protection
Attenuation from 32 dB to 900 MHz (IEEE 29:2006)
Graphenstone technology
Free of metallic particles
Black functional paint. Not a finishing paint.

TECHNICAL PROPERTIES

Specific weight	1.17 ± 0.05 g/cm ³
pH	7.0 ± 0.5
Viscosity	60 ± 5 U.K.
Solid content	38 ± 5%
Reaction to fire	B-s1, d0
Nature	Carbon particles in acrylic emulsion
Appearance	Dense liquid
VOC Content	< 1 g/l

YIELD/COVERAGE

5-7 m²/l | 200-2855 Sq. Ft./gal (2 coats).

Depending on the condition of the substrate, tools and application. The exact consumption should be determined by sampling on site.

The indicated attenuation refers to an application of 2 coats with a roller.

PACK SIZE

4L, 10L and 15L.



STORAGE

Store in original container. Keep tightly sealed in a cool and dry area with no direct exposure to sunlight. Protect from freezing. Protect from temperatures below 5°C (41°F) and above 35°C (95°F). Unopened, storage stability is 12 months from date of manufacture. Product may thicken without losing its efficacy. Shake well before use.

SUBSTRATE PREPARATION

New or previously painted plasterboard, drywall, plaster, prefabricated boards, brick or repaired substrates.

The substrate must be well adhered, free from impurities, clean, dry and dust free. Rake out any cracks and repair using the appropriate and compatible fillers.

Any organic growth and/or other impurities should be removed by thorough cleaning using specific products for this purpose.

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 apply Graphenstone paint.

It is a functional product, not a finishing product.

As this 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.

DRYING

At 25 °C (77 °F) and 60% relative humidity (RH): 4-6 hours to recoat and 24 hours total drying time.

Please note, changes in temperature and RH will affect these times.



AMBIENT CONDITIONS

The working temperature (ambient and substrate) must be between 7 °C and 35 °C (45 °F and 95 °F). Do not apply under direct sunlight or on surfaces heated by the sun.

TOOLS

Roller, brush, airless or other type of projection.
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.
Please protect areas not being painted eg: glass and timber.
Should there be any strict aesthetic requirements, it is recommended to carry out preliminary tests.
Do not mix with other brands to maintain product efficacy.

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.

USAGE WARNINGS

None, particularly in situations where normal product application is expected and by people without any specific medical conditions. Alkaline product, protect skin and eyes especially. Do not inhale the product. Keep out of reach of children.

WASTE MANAGEMENT

Pots are made using 100% PCR recycled polypropylene and are 100% recyclable. Please consult your local authority for details on waste and recycling in your area. Help protect the environment; do not pour waste or excess paint down the drain.

Please help to minimise waste and respect the environmental impact of manufacture by correctly estimating the amount of product you will need.

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.