



INDUSTRIAL System

Smart**COVER** *μ*
GRAPHENE FINISHING



INDUSTRIAL System

Graphene micro-mortar with bicomponent epoxy resin and selected mineral fillers for industrial flooring with high traffic, ideal for warehouse floors, stores, factories, etc. Guarantees high resistance to wear and abrasion, eliminates dust, facilitates cleaning and removes stains without neglecting the design.

It allows the creation of self-levelling mortars, multi-layer floors with a non-slip finish without joints, with excellent mechanical, physical, durability, aesthetic and bacteriological properties.

These indications are based on our current state of technical knowledge and our experience. Due to the different conditions of application, it is advisable to conduct proper testing to determine the most adequate consumptions and dosages for each use. Product and information are destined for industrial use, for professionals with the necessary skills and knowledge to carry out an appropriate application.

Other uses beyond those specified in this document are at your own risk



1. GENERAL CHARACTERISTICS

RECOMMENDED USES AND APPLICATIONS

Construction of continuous self-levelling paving, paving with non-slip finish, mortar-based paving, with medium and high mechanical resistance to both pedestrians and road traffic and with great resistance to stains, chemicals, wear and abrasion. For laboratories, food processing factories, warehouses, loading docks, chemical industry, assembly industry, etc. If it is exposed to sunlight (outdoors) it can undergo colour changes, which does not affect the performance of the flooring, so if it is required outdoors it should be finished with a coat of aliphatic polyurethane.

PROPERTIES AND ADVANTAGES

- **Excellent mechanical and chemical resistance.**
- **Dust and stain free hygienic flooring.**
- **High adhesion to the substrate.**
- **Self-levelling.**
- **Long duration.**
- **Heavy pedestrian and road traffic.**
- **Possibility of non-slip finish.**
- **Joint-free.**

COLOURS

- Light grey.
- Medium grey.
- Dark grey.
- Terracotta red.
- Rust green.
- Standard white.
- Black

***Other colours available on request, depending on the square metres required*



2. INDUSTRIAL SYSTEM APPLICATION

SURFACE PREPARATION

It must be well cleaned, free of grease, oil, saltpetre, dust, cracks and chips, appearing compact and dry, otherwise, the appropriate repairs must be carried out. Concrete should preferably be prepared by mechanical means.

APPLICATION MODE

- Blend the contents of each package separately.
- Mix both components manually or with low-speed electric mixer at 300 to 500 rpm.
- Add the aggregates according to the type of paving to be laid. For self-levelling paving, the so-called self-levelling load aggregates are used, which provide a selection of aggregates suitable for this application. Generally, 2 kg of aggregates are used for 1 kg of resin and this is usually sufficient for 1 m² of self-levelling pavement. For multilayer paving, a first layer similar to the self-levelling paving is spread and, while it is fresh, quartz aggregates are laid at 0.2-0.8 mm to saturation and the following day the surface is vacuumed to remove the sand that did not adhere. A load-free layer is then applied by roller or rubber trowel. Multilayer paving can have more layers in which case spreading and vacuuming is repeated.
- Mix in small quantities (5 kg) since the life of the mixture will not exceed 20-30 minutes.
- Concrete surfaces must be prepared by mechanical means, shot blasting, sanding or scraping to remove the surface coating and to obtain a slightly textured, open-pored surface.
- The concrete substrate must be compact with minimal mechanical resistance, compression > 25 N/mm² and traction > 1.5 N/mm².
- The humidity of the substrate must be less than or equal to 4%. If the flooring does not have a vapour barrier, bulges may occur in it so a 2 mm thick water vapour barrier layer should be applied before the resin.
- The application and support temperature must be between 10 and 30°C and the RH
- Ground substrates must not have rising damp.
- If it is necessary to heat the room for the application, this should not be carried out with heaters that require fossil fuels because they can negatively affect the finish of the floor; it should be heated with electric elements.
- The suitability for use depends on the temperature; in 20°C it can be used for pedestrian transit, in three days for light transit. It requires more time in lower temperatures and in higher temperatures it could be ready earlier but it is not advisable to use it before 24 hours in any case.

CLEANING TOOLS

With our EPOXY SOLVENT before curing begins, after which mechanical means will be necessary for cleaning.

STORAGE

Six months in the original, tightly sealed containers, protected from the weather and stored in a cool, dry place.



3. TECHNICAL DATA

TECHNICAL PROPERTIES

- **Density: component "A":** 1.45 kg/L (\pm) 0.01 at 20°C, **component "B":** 1.05 kg/L (\pm) 0.05 at 20°C.
- **Adherence:** 1.5 N/mm² to concrete (ISO 4624).
- **Abrasion resistance:** 70 mg (CS 10/1000/1000) (8 days, 23°C). (TABER/DIN 53109) Viscosity:
- **Component "A":** 8,000 \pm 500 mPa.s **Component "B":** 23 \pm 8 seconds at 20°C
- **Heat resistance:** permanent up to 50°C, sporadic up to 80°C.
- **Compressive strength:** 62 N/mm² (28 days, 20°C) (EN 196-1) Resistance to bending: 32 N/mm² (28 days, 20°C) (EN 196-1) Colour(s): grey, red and green, others to order.
- **Working temperature:** from 10 to 30°C.
- **Mix proportion:** by weight: 80.97A/19.03B Solids content: > 94% (\pm 2%).

PACKAGING FORMAT

25 kg + 5 kg.

COVERAGE

1 kg/m² (thickness of 1 mm).

MIXING PROPORTION

A+B = 5+1

SAFETY AND ADR SPECIFICATIONS

The information provided in this data sheet and in particular the recommendations regarding the application and use of the product are based on our current knowledge and are given in good faith, considering that the products are used, handled, applied and stored in normal situations and within the periods of their useful life. Any differences between the materials, substrates, real conditions at the place of application are such that a warranty relationship cannot be established with this document or any other information provided. Users must check with a suitability test that the product is suitable for the required use. Users should refer to the information in the latest edition of the technical data sheet, copies of which will be provided on request.