



ECO System

Smart**COVER** *μ*
GRAPHENE FINISHING



ECO System

Graphene micromortar efficient for long transportation prepared and ready to use. Same properties and application as CLASSIC System but easier to install.

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1. ECO SYSTEM APPLICATION

SUBSTRATE PREPARATION AND WATERPROOFING

The substrate must be clean, dry, smooth, firm and pore-free with no cracks or fractures. If necessary, apply a liberal coat of Waterproofing ECO+.

FIBERGLASS MESH APPLICATION

Set the Fiberglass Mesh and apply Union Bridge.
Allow to dry for 2 hours.
Apply a second coat of Waterproofing ECO+.
Allow to dry for 2 hours.
Sand with 80-grit.
Estimated performance: 100 g/m².

APPLY 2 COATS OF SMARTCOVER BASE ECO (WITH GRAPHENE) WITH METAL TROWEL

Mix 1 kg of SmartCOVER Base ECO with graphene with approximately 350 cc of water.
Estimated performance: 1 kg/m² per coat.
Estimated pot life: 1 hour.
Allow to dry for 6-8 hours.
Sand with 80-grit.

APPLY 2 COATS OF SMARTCOVER FINE ECO (WITH GRAPHENE) WITH PLASTIC TROWEL

In order to obtain "burnt effect" apply the product with metal trowel.
Add approximately 300 cc of water and 100 cc of our liquid Concentrate Pigment to 1 kg of SmartCOVER Fine ECO with graphene.
Estimated performance: 350 g/m² per coat.
Estimated pot life: 1 hour.
Allow to dry for 3-8 hours.
Sand with 120-grit.

APPLY A BEAD OF ACRILAT SEALER

Estimated performance: 100 g/m².
Allow to dry for 2 hours.

APPLY TWO TOP COAT 2KS LAYERS COMPONENT A + COMPONENT B

Mixture ratio: 4 kg of Resin / 1 kg of Hardener.
Estimated performance per coat: 50-75 g/m².
Pot life: 1 hour.
Allow product to dry between coats from 2 to 3 hours for a matte and satin finish, or 8 hours for a glossy finish.

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.



2.1. WATERPROOFING ECO+ (optional)

Waterproofing and consolidating, indicated for concrete, micromortar and ceramic tiles.

PROPERTIES

Good penetration in concrete, micromortar and porous substrates.
Reacts with moisture leaving a hard coat.

INSTRUCTIONS

Surfaces must be clean, dry and free from dust, grease, rust, dirt and residues from cleaning agents.
Apply a coat of Waterproofing ECO+ with roller and allow to dry for 2 hours.
Apply a second coat and allow to dry for 2 hours.
Sand with 80-grit.

PERFORMANCE

The estimated consumption is 100 g/m².
This consumption is intended as a guide only. Independent tests should be conducted to determine appropriate consumption amounts.

CLEANING

Tools and utilities that have been saturated with Waterproofing ECO+ must be washed with water before the product dries on them.

PRODUCT PRESENTATION

Packed in 25 l, 10 l, 5 l and 1 l containers.

HANDLING AND TRANSPORT

The usual preventive measures for the handling of chemical substances should be adopted, such as the use of goggles and gloves. Wash hands before breaks and at the end of work. Do not eat, drink or smoke while handling the product.
They are not considered dangerous goods for transport by road.

STORAGE

Store the product in its original container, perfectly closed, in a cool, dry and ventilated place at temperatures no lower than 5 °C. Avoid extreme temperatures. Under these conditions, the product is preserved for 1 year.

DISPOSAL

The disposal of the product and its packaging must be carried out in accordance with the legislation in force and it is the prime responsibility of the product consumer to adhere to disposal regulations.



HAZARD STATEMENTS AND PRECAUTIONARY STATEMENTS

H phrases:

- H 315 Causes skin irritation.
- H 317 May cause an allergic skin reaction.
- H 319 Causes serious eye irritation.
- H 332 Harmful if inhaled.
- H 334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H 335 May cause respiratory irritation.
- H 351 Suspected of causing cancer.

P phrases:

- P 260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P 280 Wear protective gloves/protective clothing/eye protection/face protection.
- P 285 In case of inadequate ventilation wear respiratory protection.
- P 314 Get medical advice/attention if you feel unwell.
- P 302 + P 352 If on skin: Wash with plenty of soap and water.
- P 305 + P 351 + P 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P 304 + P 340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P 308 + P 313 If exposed or concerned: Get medical advice/attention.
- P 403 + P 233 Store in a well-ventilated place. Keep container tightly closed.

Additional hazard statements:

- EUH 204 Contains isocyanates. May produce an allergic reaction.



2.2. FIBERGLASS MESH

Fiberglass Mesh is recommended to reinforce the resistance of micromortar walls and floorings as well as to prevent shrinkage and cracks due to the stress on specific points in the building or house.

PROPERTIES

- Water resistant.
- Flexible.
- Does not rust.

SUBSTRATE PREPARATION

- Surfaces must be perfectly set and free of dust, paint, oil, etc.
- Sand it with 80-grit and remove the sanding dust.

INSTRUCTIONS

- Fiberglass Mesh is set with the Union Bridge, followed by the application of a SmartCOVER Base ECO with graphene.

RECOMMENDATIONS

- Application should not be made in rainy conditions, or at a temperature below 5 °C or above 35 °C.

CLEANING

- Wash the tools with water before the product dries on them.

PRODUCT PRESENTATION

- In 50 m² rolls.

STORAGE

- Preserved up to 1 year in original packaging, between 15 °C and 25 °C.

SAFETY AND HYGIENE

- For any information on safety, storage and disposal of waste refer to the product *Safety Data Sheet*.

2.3. UNION BRIDGE

It is indicated for facilitating adherence between substrates.

Watery dispersion of esters of the acrylic acid with high concentration in resin.
It facilitates adhesion between micromortar and different substrates such as: cement, concrete, plasterboard, etc.

PROPERTIES

Dry product forms a bending, sticky, alkali-resistant film that facilitates the adhesion.

INSTRUCTIONS

Surfaces must be clean, dry and free of dust, grease, oxide or dirt.
Apply with a brush or roller.
Apply a regular thin coat of the product, avoiding unwanted buildups.
Do not use at temperatures below 5 °C.

PERFORMANCE

Consumption is around 100-200 g/m² according to surface porosity.
This consumption is intended as a guide only. Independent tests should be conducted to determine appropriate consumption amounts.

CLEANING

Tools and utilities that have been saturated with Union Bridge must be washed with water before the product dries on them.

PRODUCT PRESENTATION

Packed in 25 l, 10 l, 5 l and 1 l containers.

HANDLING AND TRANSPORT

The usual preventive measures for the handling of chemical substances should be adopted, such as the use of goggles and gloves. Wash hands before breaks and at the end of work. Do not eat, drink or smoke while handling the product.
They are not considered dangerous goods for transport by road.

STORAGE

Store the product in its original container, perfectly closed, in a cool, dry and ventilated place at temperatures no less than 5 °C. Avoid extreme temperatures. Under these conditions, the product is preserved for 9 months.

DISPOSAL

The disposal of the product and its packaging must be carried out in accordance with the legislation in force and it is the prime responsibility of the product consumer to adhere to disposal regulations.

TECHNICAL DATA

Appearance:	White liquid
Density, 20 °C:	1.02 +- 0.2 g/cm ³
pH:	8 +- 1
Brookfield viscosity, 20 °C:	50-100 cps



2.4. SMARTCOVER BASE ECO WITH GRAPHENE

Micromortar base functionalized with graphene that works as a regularising and repairing adhesive.

It provides improvements against scratch resistance, impact resistance, impermeability, workability, cracking resistance, abrasion resistance and flexural strength.

APPLICATIONS

Adhesive that regularises and repairs cement, concrete, plaster mortar substrates and pavements used in walls and floors that have heavy usage.

Facade cladding.

Application for overlap on old stoneware tiles.

PROPERTIES

Optimal grip for high compressive and shearing strengths.

High thixotropy and great workability.

Non-slip.

Suitable for immersion in water.

SUBSTRATE PREPARATION

Surfaces must be resistant, be perfectly set and free of dust, paint, oil, etc.

If the surface is exposed to direct sunlight or very absorbent, it is recommended to wet the surface before application of the product.

INSTRUCTIONS

Mix 1 kg SmartCOVER Base ECO with graphene with, approximately, 350 cc of water.

Allow to stand for 5 minutes.

Mix again to obtain a paste ready to use.

Apply with metal trowel and expand on the substrate in order to have a consistent and even surface.

RECOMMENDATIONS

Application should not be made in rainy conditions, or at a temperature below 5 °C or above 35 °C.

Wet the substrates in hot weather or strong wind.

In low absorbing substrates, open the pore with hydrochloric acid or etching diluted at 50%.

TECHNICAL DATA

Application temperature: 5 °C to 35 °C

Open time: 30 minutes.

Mixture pot life: 1 hour.

Adherence: $\geq 2.0 \text{ N/mm}^2$

PERFORMANCE

Approximate consumption: 1 kg/m² per coat.

CLEANING

Wash the tools with water before the product dries on them.



PRODUCT PRESENTATION

Buckets of 10 kg and 25 kg.
White colour.

STORAGE

Preserved up to 1 year in original packaging, between 15 °C and 25 °C.

SAFETY AND HYGIENE

For any information on safety, storage and disposal of waste refer to the product *Safety Data Sheet*.



2.5. SMARTCOVER FINE ECO WITH GRAPHENE

Fine micromortar coating functionalized with graphene for walls and floors.

APPLICATIONS

Apply over SmartCOVER Base ECO with graphene.
It provides continuous coat on surfaces free of wall and floor joints.

PROPERTIES

Water resistant.
Abrasion resistant.

SUBSTRATE PREPARATION

Surfaces must be resistant, be perfectly set and free of dust, paint, oil, etc.
Sand it with 80-grit and remove the sanding dust.

INSTRUCTIONS

Mix approximately 300 cc of water and 100 cc of our liquid Concentrate Pigment to 1 kg of SmartCOVER Fine ECO with graphene and mix until smooth.

Allow to stand for 5 minutes.

Mix again to obtain a paste ready to use.

Apply with plastic or metal trowel to get "burnt effect" and expand on the substrate in order to have a regular surface of approximately 1 to 1.5 mm of thickness.

RECOMMENDATIONS

Application should not be made in rainy conditions, or at a temperature below 5 °C or above 35 °C.

TECHNICAL DATA

Application temperature: 5 °C to 35 °C

Mixture pot life: 1 hour

PERFORMANCE

Approximate consumption: 350 g/m² per coat.

CLEANING

Wash the tools with water before the product dries on them.

PRODUCT PRESENTATION

Buckets of 10 kg and 20 kg.

White colour.

STORAGE

Preserved up to 1 year in original packaging, between 15 °C and 25 °C.

SAFETY AND HYGIENE

For any information on safety, storage and disposal of waste refer to the product *Safety Data Sheet*.



2.6. CONCENTRATE PIGMENT

Pigment dispersion indicated for colouring SmartCOVER Fine ECO with graphene.

INSTRUCTIONS

Add approximately 300 cc of water and 100 cc of Concentrate Pigment to 1 kg of SmartCOVER Fine ECO with graphene.
Mix until smooth.

CLEANING

Tools and utilities that have been saturated with Concentrate Pigment must be washed with water before the product dries on them.

PRODUCT PRESENTATION

Packed in 25 l, 10 l, 5 l and 1 l containers.

HANDLING AND TRANSPORT

The usual preventive measures for the handling of chemical substances should be adopted, such as the use of goggles and gloves. Wash hands before breaks and at the end of work. Do not eat, drink or smoke while handling the product.

They are not considered dangerous goods for transport by road.

STORAGE

Store the product in its original container, perfectly closed, in a cool, dry and ventilated place at no less than 5 °C. Avoid extreme temperatures. Under these conditions, the product is preserved for 1 year.

DISPOSAL

The disposal of the product and its packaging must be carried out in accordance with the legislation in force and it is the prime responsibility of the product consumer to adhere to disposal regulations.



2.7. ACRILAT SEALER

Fast drying sealer for micromortar. Watery dispersion of acrylic resins which forms a sealing film on cementitious coatings.

PROPERTIES

Dry product forms a hard film in satin matte finish.

INSTRUCTIONS

Surfaces must be clean, dry and free of dust, grease, oxide or dirt.

Apply with a brush or roller.

Apply a consistent thin coat of product to avoid immediate and unwanted buildups.

Do not use at temperatures below 5 °C.

PERFORMANCE

Consumption is around 100-150 g/m² according to surface porosity.

This consumption is intended as a guide only. Independent tests should be conducted to determine appropriate consumption amounts.

CLEANING

Tools and utilities that have been saturated with Acrilat Sealer must be washed with water before the product dries on them.

PRODUCT PRESENTATION

Packed in 25 l, 10 l, 5 l and 1 l containers.

HANDLING AND TRANSPORT

The usual preventive measures for the handling of chemical substances should be adopted, such as the use of goggles and gloves. Wash hands before breaks and at the end of work. Do not eat, drink or smoke while handling the product.

They are not considered dangerous goods for transport by road.

STORAGE

Store the product in its original container, perfectly closed, in a cool, dry and ventilated place at no less than 5 °C. Avoid extreme temperatures. Under these conditions, the product is preserved for 1 year.

DISPOSAL

The disposal of the product and its packaging must be carried out in accordance with the legislation in force and it is the prime responsibility of the product consumer to adhere to disposal regulations.

TECHNICAL DATA

Appearance:	White liquid
Density, 20 °C:	1.02 +- 0.2 g/cm ³
pH:	8 +- 1
Brookfield viscosity, 20 °C:	100-300 cps
Drying time:	Approximately 20 minutes



2.8. TOP COAT 2KS Component A (Polyurethane) + Component B (Hardener)

Two-component aliphatic polyurethane sealant. Choose between our different finishes: transparent, matte, gloss and satin.

APPLICATIONS

It guarantees a durable protection of pavements and facades. It can be used on wood, cluster and kind of flooring including: micromortar, continuous concrete, marble, porcelain stoneware, etc.

PROPERTIES

High hardness and resistance to abrasion.
Water resistant.
Water vapor permeability.
High resistance to stains and to different aggressive agents.
Excellent mechanical properties and chemical resistance to aggressive and cleaning agents.
Water-based product, COVs-free and environmentally-friendly.

Hardness of König pendulum (ISO 1522):	Approximately 120 sec
Abrasion resistance (ASTM D4060):	Approximately 37 mg
Slip resistance (UNE-EN 12633:2003, annex A):	Class 1

FEATURES

Fast drying.
Foot-traffic 24 hours after the application.
Maximum resistance is appreciated 7 days after the application.
Estimated quantity per coat: from 50 to 75 g/m².
Mixture pot life: approximately 1 hour between 15 °C and 25 °C.

MAINTENANCE

Easy cleaning and maintenance. Wash with water and mild soap.
Polishing wax can be applied on the final coat of varnish.

INSTRUCTIONS

Surfaces must be clean, dry and free of dust, grease, wax or residues from cleaning agents. If necessary, carry out a preliminary treatment of the substrate. Loose or weak anchorage areas must be removed and repaired.

Mix A and B components following the rule of 4 parts of A and 1 part of B, and homogenize with a rod. Use a gentle hand-mixing technique to combine the two products. It is not necessary to use a stirrer.

Allow the mixture to stand for a few minutes.

Apply a liberal coat and expand evenly.

Allow product to dry for approximately 2 hours for a matte and satin finish or 12 hours for a glossy finish.

Apply a second coat. If more than 2 hours elapse between the first coat application and the second one, it is necessary to open the pores of the first coat with fine sandpaper before applying the second coat.



RECOMMENDATIONS

To even the absorption of the substrate it is recommended to apply previously Acrilat Sealer.

It is not recommended to dilute the product in water.

It is recommended to apply the product between 5 °C and 35 °C.

The enclosure must be ventilated during the application and drying of the product. Avoid strong air currents, direct sunlight and keep the surface free from dust.

APPLICATION

Easy application with a roller, brush or spray-gun.

Thread or microfibre roller of approximately 8 mm.

Nozzle spray gun of 1.8-2.0, nozzle of 2.5-3.0 and pressure of 2.5-3.0 atm.

With an airless: nozzles of 13-15, 15-17.

CLEANING

Clean the application tools with water before the product dries on them.

PRODUCT PRESENTATION

Component A: 5 kg pack.

Component B: 1 kg pack.

STORAGE

Preserved up to 1 year in original packaging, between 15 °C and 25 °C.

Protect from frost and excessive heat.

Product is sensitive to intense cold: It is recommended to avoid temperatures below 5 °C.

Store away from heat. It is recommended to avoid temperatures above 35 °C.

SAFETY AND HYGIENE

Use appropriate working clothes, gloves and protective goggles against liquid splashes.

For any information on safety, storage and disposal of waste refer to the product *Safety Data Sheet*.