

Factory Eco Colormaxi EP

Multi-purpose, eco-friendly, high-performance coloured organic mineral covering for industrial floors, ideal for use in GreenBuilding. Two-component, solvent-free, safeguards the health of operators.

Factory Eco Colormaxi EP is specifically designed to create coloured resin-based film, multi-layer and mortar coatings with variable chemical and mechanical strengths according to the cycles selected and the thickness applied.



GREENBUILDING RATING®

Factory Eco Colormaxi EP

- Category: Organic Mineral products
- Class: Laying resin-based coating materials
- Rating: Eco 2

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- For internal use
- Semi-gloss finish
- Easy to apply with roller or spreader
- To create film coatings suitable for light traffic, waterproof and resistant to oil, hydrocarbons and liquids used for food purposes
- To create resin-based multi-layer and mortar coatings with a high resistance to scratching and wear, impermeable to water, oil, hydrocarbons and liquids used for food purposes

ECO NOTES

- Improved on-site safety guaranteed

AREAS OF USE

Use
Semi-gloss, textured coloured coating to create continuous flooring in resin-based film, multi-layer and mortar.

Substrates:

- floors in smoothed concrete or with a dry-shake quartz finish
- cement-based screeds
- porcelain tiles, ceramic floors, natural stone
- anhydrite screeds
- epoxy screeds

Interior floors. Suitable for heated substrates. Like all epoxy resin coatings, Factory Eco Colormaxi EP slight colour changes may occur over time.

The use and suitability for types of traffic vary according to the system chosen:

- System 2 THIN FILM, suitable for high intensity foot traffic and low intensity vehicular traffic
- System 3 THICK FILM, suitable for high intensity foot traffic and medium intensity vehicular traffic
- System 4 PLYWOOD 1.5, suitable for high intensity foot traffic and medium intensity vehicular traffic
- System 5 PLYWOOD 3.0, suitable for high intensity vehicular traffic and low intensity industrial traffic
- System 8 RESIN-BASED MORTAR, suitable for medium/high intensity industrial traffic

Do not use
In external applications, on substrates with high levels of flexibility and thermal dilation, on substrates that are wet or subject to damp rising, when the temperature of the air, product and substrate is below +10 °C and when the relative humidity is above 80%. Do not use if the temperature of the substrate is not at least 3 °C above the dew point.

* ÉMISSION DANS L'AIR INTÉRIEUR Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

INSTRUCTIONS FOR USE

Preparation of substrates

Substrates must be cleaned from dust, oil, grease detaching substances. Shall be permanently dry and free from any high residual moisture rising or in counterthrust. Cement-based substrates must have a residual moisture at a maximum of 3% (2.5% in the case of heated substrate). Anhydrite supports must have a moisture at a maximum 0.5% (0.2% in the case of heated substrate). The substrate must be stable, non-deformable have already completed the hygrometric shrinkage and without non-stable cracks. The substrates must be mechanically prepared using suitable processing cycle depending on the selected system and perfectly dusted. After they have been cleaned and prepared, substrates must have a surface tear strength >1.5 mPa according to ASTM D 4541 and a compressive strength > 25 N/mm².

System 2 THIN FILM: substrates in smoothed concrete, cement-based screeds, anhydrite screeds, after mechanical preparation and removal of dust should be treated using the impregnation technique with Slc[®] Eco EP21 diluted with Keragrip Eco Pulep up to 30%, uniformly applying with a roller or a spreader an amount that can be completely absorbed by the substrate. Should there be any accidental build-up of product or incomplete absorption, it is necessary, using suitable tools, to eliminate the excess product and to rough the surface to guarantee sufficient grip; finally, vacuum up the waste carefully before proceeding with subsequent applications. When applying coats of other products, this must be done within a maximum of 30 hours. If waiting times are longer, the surface must be sanded to make it rough and adhesive, and any sanding waste must be eliminated using extraction equipment before applying the next coat.

System 3 THICK FILM: substrates in smoothed concrete, cement-based screeds, anhydrite screeds, after mechanical preparation and removal of dust should be treated using the impregnation technique with Slc[®] Eco EP21 diluted with Keragrip Eco Pulep up to 30%, uniformly applying with a roller or a spreader an amount that can be completely absorbed by the substrate. Should there be any accidental build-up of product or incomplete absorption, it is necessary, using suitable tools, to eliminate the excess product and to rough the surface to guarantee sufficient grip; finally, vacuum up the waste carefully before proceeding with subsequent applications. After 12 - 24 hours the support must be smoothed using Slc[®] Eco EP21 containing Addensante additive in an approximate ratio of 10 : 1 by weight. If waiting times are longer than those indicated, the surface must be sanded to make it rough and adhesive, and any sanding waste must be eliminated using extraction equipment before applying the next coat.

System 4 PLYWOOD 1.5: substrates in smoothed concrete, cement-based screeds, anhydrite screeds, after mechanical preparation and removal of dust should be treated using the impregnation technique with Slc[®] Eco EP21 diluted with Keragrip Eco Pulep up to 30%, uniformly applying with a roller or a spreader an amount that can be completely absorbed by the substrate. Should there be any accidental build-up of product or incomplete absorption, it is necessary, using suitable tools, to eliminate the excess product and to rough the surface to guarantee sufficient grip; finally, vacuum up the waste carefully before proceeding with subsequent applications. When applying coats of other products, this must be done within a maximum of 30 hours. If waiting times are longer, the surface must be sanded to make it rough and adhesive, and any sanding waste must be eliminated using extraction equipment before applying the next coat. Application of Keralevel[®] Eco Floor and dusting with Quarzo 1.3 until saturated. Once hardened, the support must be sanded and the dust must be removed. The substrates consisting of porcelain tiles, ceramic or natural stone floors, after mechanical preparation and removal of dust should be prepared with Keralevel[®] Eco Floor, including laying of Net 90 reinforcement mesh and dusted with Quarzo 1.3 until saturation point is reached. Once hardened, the support must be sanded and the dust must be removed.

System 5 PLYWOOD 3.0: substrates in smoothed concrete, cement-based screeds, anhydrite screeds, after mechanical preparation and removal of dust should be treated using the impregnation technique with Slc[®] Eco EP21 diluted with Keragrip Eco Pulep up to 30%, uniformly applying with a roller or a spreader an amount that can be completely absorbed by the substrate. Should there be any accidental build-up of product or incomplete absorption, it is necessary, using suitable tools, to eliminate the excess product and to rough the surface to guarantee sufficient grip; finally, vacuum up the waste carefully before proceeding with subsequent applications. When applying coats of other products, this must be done within a maximum of 30 hours. If waiting times are longer, the surface must be sanded to make it rough and adhesive, and any sanding waste must be eliminated using extraction equipment before applying the next coat. Lay a suitable Net 90 reinforcement mesh on the substrate, taking care to overlap the edges by approximately 10 cm. Apply Keralevel Eco Floor using a spreader and dust with Quarzo 1.3 until saturated. Once hardened, the support must be sanded and the dust must be removed. Apply Keralevel Eco Floor using a spreader and dust with Quarzo 1.3 until saturated. Once hardened, the support must be sanded and the dust must be removed. The substrates consisting of porcelain tiles, ceramic or natural stone floors, after mechanical preparation and removal of dust should be prepared with Keralevel[®] Eco Floor, using a spreader and including the laying of a Net 90 reinforcement mesh surmounted on joints for about 10 cm and dusted with Quarzo 1.3 until saturated. Once hardened, the support must be sanded and the dust must be removed. Application of Keralevel[®] Eco Floor using a spreader and subsequent dusting with Quarzo 1.3 until saturated. Once hardened, the support must be sanded and the dust must be removed.

System 8 RESIN-BASED MORTAR: substrates in smoothed concrete finish, cement-based screeds, anhydrite screeds, after mechanical preparation and removal of dust should be treated using the impregnation technique with Slc[®] Eco EP21. After this the epoxy screed must be created wet-on-wet by laying a mix of Slc[®] Eco EP21 and Quarzo 5.12 in an approximate ratio of 1 : 8. When hardened, the epoxy screed must be finished with a mixture of Slc[®] Eco EP21 and Quarzo 1.3 in a ratio of 1 : 1.

Preparation

Factory Eco Colormaxi EP is prepared by mixing together parts A and B from the bottom upwards, using a low-rev (400/min.) helicoidal agitator, respecting the preset ratio of the packs (Part A 10 kg : Part B 3 kg). Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained. It is necessary to mix an amount of product that can be used within 20 minutes.

Application

Factory Eco Colormaxi EP can be applied using a roller or smooth spreader, according to the system being used.

System 2 THIN FILM (check the suitability of the colour selected from the colour chart): application by roller of a first coat of Factory Eco Colormaxi EP with a coverage of ≈ 150 g/m². If a light non-slip effect surface is required, apply Factory Eco Color Maxi EP using a roller with 5% of Quarzo 1.3 additive, ensuring that the product is constantly mixed. On hardening, and in any event within 30 hours, use a roller to apply a second coat of Factory Eco Colormaxi EP (if necessary diluted with 5% Slc[®] Eco DD) with a coverage of ≈ 120 g/m².

System 3 THICK FILM (check the suitability of the colour selected from the colour chart): application by roller of a first coat of Factory Eco Colormaxi EP with a coverage of ≈ 150 g/m². If a light non-slip effect surface is required, apply Factory Eco Color Maxi EP using a roller with 5% of Quarzo 1.3 additive, ensuring that the product is constantly mixed. On hardening, and in any event within 30 hours, use a roller to apply a second coat of Factory Eco Colormaxi EP (if necessary diluted with 5% Slc[®] Eco DD) with a coverage of ≈ 120 g/m².

INSTRUCTIONS FOR USE

System 4 PLYWOOD 1.5: application by spreader of Factory Eco Colormaxi EP mixed with Quarzo 1.3 in a ratio of 1 : 1 with a coverage of $\approx 400 \text{ g/m}^2$ of Factory Eco Colormaxi EP. If you want a coating with a high non-slip effect, dust with Quarzo 1.3, wet-on-wet, until saturated. Once hardened (after removing any excess quartz sand) sand the surface to even out the flooring and remove any ridges, and use a roller to apply Factory Eco Colormaxi EP with a coverage of $\approx 120 \text{ g/m}^2$ (if necessary diluted with 5% Slc® Eco DD).

System 5 PLYWOOD 3.0: application by spreader of Factory Eco Colormaxi EP mixed with Quarzo 1.3 in a ratio of 1 : 1 with a coverage of $\approx 400 \text{ g/m}^2$ of Factory Eco Colormaxi EP. If you want a coating with a non-slip effect, dust with Quarzo 1.3, wet-on-wet, until saturated. Once hardened (after removing any excess quartz sand) sand the surface to even out the flooring and remove any ridges, and use a roller to apply Factory Eco Colormaxi EP with a coverage of $\approx 120 \text{ g/m}^2$ (if necessary diluted with 5% Slc® Eco DD).

System 8 RESIN-BASED MORTAR: application by spreader of Factory Eco Colormaxi EP mixed with Quarzo 1.3 in a ratio of 1 : 1 with a coverage of $\approx 400 \text{ g/m}^2$ of Factory Eco Colormaxi EP. If you want a coating with a non-slip effect, dust with Quarzo 1.3, wet-on-wet, until saturated. Once hardened (after removing any excess quartz sand) sand the surface to even out the flooring and remove any ridges, and use a roller to apply Factory Eco Colormaxi EP with a coverage of $\approx 120 \text{ g/m}^2$ (if necessary diluted with 5% Slc® Eco DD).

Cleaning

Residual traces Factory Eco Colormaxi EP can be removed from tools with alcohol before the product has hardened.

SPECIAL NOTES

If the substrate contains joints that are subject to shrinkage or movement in general, they must be brought to the surface and treated with suitable elastic sealing agents.

If a second layer of Factory Eco Colormaxi EP is applied without dusting with Quarzo 1.3, it should only be applied after at least 12 hours and within 24 hours after the first coat. After this time, the surface will have to be carefully sanded before laying the second coat over it. Before applying additional coloured or transparent finishes, always wait until the product has hardened completely, then sand the surface and remove any dust.

ABSTRACT

The coloured finish of the continuous resin-based film, multi-layer or mortar system will be created using a multi-purpose, eco-friendly, high-performance organic mineral covering with a semi-gloss, textured effect, compliant with GreenBuilding Rating® Eco 2, such as Factory Colormaxi EP, by Kerakoll Spa, with an average coverage for spreader applications of $\approx 400 \text{ g/m}^2$ per coat and for roller applications of $\approx 200 \text{ g/m}^2$ per coat.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	fluid white or coloured paste
Shelf life	≈ 12 months in the original packaging
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat
Pack	part A 10 kg bucket - part B 2.5 kg can
Mixing ratio	part A : part B = 10 : 2.5
Pot life	≈ 30 min.
Temperature range for application	from $+10 \text{ }^\circ\text{C}$ to $+30 \text{ }^\circ\text{C}$
Foot traffic	≈ 24 hrs
Waiting time for overlaying	≈ 24 hrs
Interval before normal use	≈ 48 hrs
Coverage:	
- film coating	$\approx 150 \text{ g/m}^2$ per coat
- multi-layer coating	$\approx 400 \text{ g/m}^2$ per coat

Values taken at $+20 \text{ }^\circ\text{C}$, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e. temperature, ventilation and absorbcency level of the substrate.

PERFORMANCE

HIGH-TECH		
Compressive strength after 28 days *	$\geq 70 \text{ N/mm}^2$	EN 196-1
Flexural strength after 28 days *	$\geq 50 \text{ N/mm}^2$	EN 196-1
Abrasion strength after 7 days *	$\leq 60 \text{ mg}$, CS17 abrasive disk, 1,000 rpm, 1,000 g weight	Taber method
Adhesion to concrete after 28 days *	$\geq 2.7 \text{ N/mm}^2$ (concrete yield)	EN 13892-8

Values taken at $+20 \text{ }^\circ\text{C}$, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

* average values, may vary according to colour

COLOUR CHART



The shades shown in this colour chart are purely indicative. For colour selection you are referred to the Kerakoll RAL Colour Chart.
Uncoded colours: feasibility, minimum quantity, delivery times on request.

* Low coverage colour, do not use for thin film (Factory System N° 2) and thick film (Factory System N° 3) applications; apply an additional white base coat on the wall.

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- when used for decorative purposes, bear in mind that exposure to UV rays may, over time, result in slight variations in colour tone
- apply the product at substrate temperatures from +10°C to +30°C
- apply on dry substrates
- protect from direct sunlight and currents of air for the first 6 hours
- do not apply on dirty or loose surfaces
- dispose of as indicated in applicable legislation
- the properties of products exposed to sharp changes in temperature (due to transport, storage, building site use, etc.) may be altered (e.g. crystallisation, partial hardening, fluidization, accelerated or delayed catalysis). In most cases, when products are restored to optimal conditions, the original properties will also be restored
- protect surfaces and objects from accidental contact
- read the product safety data sheet before use
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service - info@kerakoll.ae

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in December 2018 (ref. GBR Data Report - 12.18); please note that additions and/or amendments may be made over time by KERAKOLL SpA, for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.