

Factory Eco Colorflow EP

Self-levelling, 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 Colorflow EP is specific to create coloured, resin-based, self-levelling type coatings, with high mechanical resistance and durability. Impermeable to water, oil, hydrocarbons and liquids used for food purposes.



GREENBUILDING RATING®

Factory Eco Colorflow EP

- Category: Organic Mineral products
- Laying resin-based coating materials
- Rating: Eco 3

*Rating based on average colour formulations

	Natural mineral content 49%		Solvent-free		Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- For internal use
- Thicknesses from 1.5 to 4 mm
- Extremely long-lasting monolithic coating material
- Smooth satin finish
- Ready-to-use, ensures constant levels of performance
- Long self-levelling time, also suitable for large surface areas

ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emission during transportation

AREAS OF USE

Use
Coloured self-levelling coating with smooth satin finish for the creation of continuous self-levelling- type flooring coverings with 1.5 to 4 mm thickness.

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

Internal floors in domestic, commercial and industrial applications. Suitable for foot and vehicular traffic of high intensity and low intensity industrial traffic. Suitable for heated substrates. Like all epoxy resin coatings, in Factory Eco Colorflow EP slight colour changes may occur over time.

Do not use
In external applications, on substrates with a high level of flexibility and thermal expansion, on substrates that are not dry or subject to moisture rising.

* 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 or substrates consisting of porcelain tiles, ceramics, natural stone must have a residual moisture at a maximum 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. Generally, the most suitable preparation in case of realization of self-levelling covering is the shot peening. 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.

Substrates in smoothed concrete or with a dry-shake quartz finish, cement-based screeds, anhydrite screeds, after mechanical preparation and removal of dust should be treated using the impregnation technique with Slc[®] Eco EP 21 diluted with Keragrip Eco Pulep up to 30% according to the absorption of the substrate and prepared with Keralevel[®] Eco Floor and dusted until saturated with Quartz 1.3. In the case of presence of stable cracks, chases for electrical systems or in general in the presence of discontinuous or uneven substrates, provide during application of Keralevel[®] Eco Floor the insertion of Net 90 suitable reinforcing mesh.

The substrates consisting of porcelain floors, ceramic, natural stone, after mechanical preparation and removal of dust should be prepared with Keralevel[®] Eco Floor and Net 90.

Substrates consisting of epoxy screeds must be finished with Slc[®] Eco EP 21 mixed in a 1:1 ratio with Quartz 1.3.

Preparation

Factory Eco Colorflow 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 12 kg : Part B 2 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

Apply Factory Eco Colorflow EP with a toothed or smooth spreader.

Cleaning

Residual traces of Factory Eco Colorflow 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.

In the event that Factory Eco Colorflow EP is used in environments with aesthetic value, it is recommended to give the coating a greater scratch-proof protection, to protect the surface by applying 2 coats of opaque finished Factory Eco Protection PU.

ABSTRACT

The resin coating will be made of mineral eco-friendly self-levelling organic formulation for industrial floor coverings, in accordance with the GreenBuilding Rating[®] Eco 3 such as Factory Eco Colorflow EP by Kerakoll Spa. Apply the product using a smooth or toothed spreader on the previously prepared substrate in thicknesses from 2 to 4 mm. Coverage ≈ 1.6 kg/mm/m².

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	fluid, 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 12 kg bucket - Part B 2 kg can
Mixing ratio	Part A : Part B = 6 : 1
Pot life	≈ 30 min.
Temperature range for application	from +10 °C to +30 °C
Foot traffic	≈ 48 hrs
Waiting time for overlaying	≈ 48 hrs
Interval before normal use	≈ 4 days
Coverage	≈ 1.5 kg/mm/m ²

Values taken at +20 °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 *	> 35 N/mm ²	EN 196-1
Flexural strength after 28 days *	> 20 N/mm ²	EN 196-1
Adhesion to concrete after 28 days *	≥ 2 N/mm ²	

Values taken at +20 °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

				
RAL 1001	RAL 1002	RAL 1006	RAL 1015	RAL 3000 **
				
RAL 3011 **	RAL 5007	RAL 5012	RAL 5024 **	RAL 6001 **
				
RAL 6017	RAL 6019	RAL 6021	RAL 7001	RAL 7037
				
RAL 7038	RAL 7040	RAL 7042	RAL 7043 **	RAL 7044
				
RAL 9001	RAL 9010	RAL 9016 **		

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.

** The product's special finish means that it is not possible to reproduce the RAL colour indicated exactly.

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.