

Factory Colormaxi EP

Multi-purpose, high-performance coloured organic mineral coating for industrial floors.

Factory 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.



Rating 1

1. For internal use
2. Semi-gloss finish
3. Easy to apply with roller or spreader
4. To create film coatings suitable for light traffic, waterproof and resistant to oil, hydrocarbons and liquids used for food purposes
5. 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
6. Suitable for environments used for food processing

- × Regional Mineral $\geq 30\%$
- × VOC Low Emission
- ✓ Solvent ≤ 5 g/kg
- × Low Ecological Impact
- × Health Care

kerakoll

Areas of application

→ Intended use:

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

Substrates:

- floors in smoothed concrete or with a dry-shake quartz finish
- cement-based screeds
- porcelain tiles, ceramic floors, natural stone (in systems 5 MULTILAYER 3.0 and 8 RESIN-BASED MORTAR)
- epoxy screeds

Interior floors. Suitable for heated substrates. Like all epoxy resin coatings, Factory Colormaxi EP may show slight colour variations 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 for external use, 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 air humidity is above 80%. do not use if the temperature of the substrate is not at least 3 °C above the dew point

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). 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 consisting of smoothed concrete, after mechanical preparation and removal of dust, should be treated using the impregnation technique with Factory Primermaxi EP.
- System 3 THICK FILM: substrates consisting of smoothed concrete and cement-based screeds, after mechanical preparation and removal of dust, should be treated with Factory Primermaxi EP applied with a roller (diluted up to 30% with DD in case of substrates consisting of porous cement-based screeds) and sprinkled with Quarzo 1.3 on the fresh surface. Once the product has hardened, eliminate the excess quartz, sand and dust the substrate and apply a finishing coat obtained

mixing Factory Primermaxi EP with Quarzo 1.3 up to 50% (2 parts of Factory Primermaxi EP and 1 part of Quarzo 1.3), using a smooth spreader.

- System 4 MULTI-LAYER 1.5 mm: only substrates consisting of cement-based screeds, after mechanical preparation and removal of dust, should be treated with Primermaxi EP applied with a roller (diluted up to 30% with DD in case of substrates consisting of porous cement-based screeds). After this, on substrates consisting of smoothed concrete and cement-based screeds, apply a finishing coat obtained mixing Factory Primermaxi EP with Quarzo 1.3 up to 50% (2 parts of Factory Primermaxi EP and 1 part of Quarzo 1.3), using a smooth spreader and sprinkle with Quarzo 1.3 on the fresh surface. Once the product has hardened, eliminate the excess quartz, sand and dust the substrate: after this, apply a finishing coat obtained mixing Factory Primermaxi EP with Quarzo 1.3 up to 50% (2 parts of Factory Primermaxi EP and 1 part of Quarzo 1.3), using a smooth spreader and sprinkle with Quarzo 1.3 on the fresh surface. Once the product has hardened, eliminate the excess quartz, sand and dust the substrate.
- System 5 MULTI-LAYER 3.0 mm: only substrates consisting of cement-based screeds, after mechanical preparation and removal of dust, should be treated with Primermaxi EP applied with a roller (diluted up to 30% with DD in case of substrates consisting of porous

Instructions for use

- cement-based screeds). Substrates consisting of existing floors in ceramic tiles and natural stone must be carefully ground in depth. After this, on all types of substrate, lay the NET 90 reinforcement mesh and apply a finishing coat obtained mixing Factory Primermaxi EP with Quarzo 1.3 – 1.7 up to 50% (2 parts of Factory Primermaxi EP and 1 part of Quarzo 1.3), using a smooth spreader and taking care to completely cover the mesh, and sprinkle with Quarzo 1.3 on the fresh surface. Once the product has hardened, eliminate the excess quartz, sand and dust the substrate. After this, apply a finishing coat obtained mixing Factory Primermaxi EP with Quarzo 1.3 up to 50% (2 parts of Factory Primermaxi EP and 1 part of Quarzo 1.3), using a smooth spreader and sprinkle with Quarzo 1.3 on the fresh surface. Once the product has hardened, eliminate the excess quartz, sand and dust the substrate.
- **System 8 RESIN-BASED MORTAR:** cement-based substrates must be milled and dusted. Substrates consisting of existing floors in ceramic tiles and natural stone must be carefully ground in depth and dusted. After this, apply EP21 using the impregnation and fresh on fresh techniques on cement-based substrates and create the epoxy screed laying a mix of EP21 and Quarzo 5.12 in an approximate ratio of 1 : 8. On existing floors in ceramic tiles and natural stone, apply EP21 using the impregnation technique and sprinkle the surface with Quarzo 5.12. Once the product has hardened the epoxy screed must be created by laying a mix of EP21 and Quarzo 5.12 in an approximate ratio of 1 : 8. Once the epoxy screed has hardened, apply a finishing coat obtained mixing Factory Primermaxi EP with Quarzo 1.3 up to 50% (2 parts of Factory Primermaxi EP and 1 part of Quarzo 1.3), using a smooth spreader.

→ Preparation

Factory 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 2.5 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 Colormaxi EP can be applied using a roller or smooth spreader, according to the system being used.

- **Roller application:** apply with a short-bristle roller using the coverage of approx. 150 g/m². If necessary dilute with 5% DD.
- **Spreader application:** add Quarzo 1.3 or 1.7 up to 30% - 40% and apply with a smooth metal spreader using the coverage of approx. 400 g/m².
- **Spreader application with non-slip finish:** add Quarzo 1.3 up to 30%, apply with a smooth metal spreader using the coverage of approx. 400 g/m² and cross with a short-bristle roller.

→ Cleaning

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

Certificates and marks



* 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).

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 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 resin-based mortar system will be created using a multi-purpose, high-performance organic mineral covering with a semi-gloss, textured effect, compliant with GreenBuilding Rating 1, such as Factory Colormaxi EP, by Kerakoll Spa, with an average coverage for spreader applications of approx. 400 g/m² per coat and for roller applications of approx. 150 g/m² per coat.

Technical Data compliant with Kerakoll Quality Standard	
Appearance:	
- Part A	fluid white or coloured paste
- Part B	straw yellow transparent liquid
Shelf life	≈ 12 months from production in the original sealed 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 °C to +30 °C
Foot traffic	≈ 24 hrs
Waiting time for overlaying	≈ 24 hrs
Interval before normal use	≈ 48 hrs
Full hardening	≈ 7 days
Coverage:	
- film coating	≈ 150 g/m² per coat
- multi-layer coating	≈ 400 g/m² per coat

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 absorbency level of the substrate.

Performance		
HIGH-TECH		
Conformity	SR-B2,0-AR0,5-IR20	EN 13813
Compressive strength after 28 days *	≥ 70 N/mm²	EN 196-1
Flexural strength after 28 days *	≥ 50 N/mm²	EN 196-1
Abrasion strength after 7 days *	≤ 60 mg, CS17 abrasive disk, 1.000 rpm, 1.000 g weight	Taber method
Adhesion to concrete after 28 days *	≥ 2.7 N/mm² (concrete yield)	EN 13892-8
Suitability in environments with foodstuffs:		**
- determination of dirt collection ΔL	0.5 (limit ΔL < 3)	
- odour release	0.0 (limit ≤ 1)	
- determination of wash resistance	≥ 5000 (limit ≤ 5000)	
* average values, may vary according to colour		
** Suitability in environments with foodstuffs is to be considered valid from the time the product has completely hardened. Food and/or foodstuffs must not be present during the application of the product.		

Colour chart		
Factory Colormaxi EP colour		
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		

* 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

** 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 +39 0536 811 516 - globalservice@kerakoll.com



The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in April 2023 (ref. GBR Data Report - 05.23); please note that additions and/or amendments to this information 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 site 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.