

Factory Color PU/S

Coloured or neutral high-performance eco-friendly liquid organic finish for resin floors, ideal for use in GreenBuilding. Two-component, safeguards the health of the environment.

Factory Color PU/S is a specific finishing product for the creation of continuous film coatings and the finishing of resin-based multi-layer and self-levelling systems, resistant to oil and liquids used for food purposes. In its neutral version, it is specific for the impregnation of smoothed concrete floors and as a protective finish.



GREENBUILDING RATING®

Factory Color PU/S
 - Category: Liquid organic products
 - Laying resin-based coating materials

rating 1

No environmental hazard rating

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Internal, external
- Floors and walls
- Smooth finish
- High protection from scratching and abrasion
- Suitable for environments used for food processing

AREAS OF USE

Use
 Semi-gloss, coloured or neutral finishing product for the creation of continuous film coatings and impregnation on floors and walls. Suitable for the finishing of resin-based multi-layer and self-levelling systems.

Substrates:

- floors in smoothed concrete or with a dry-shake quartz finish
- cement-based screeds
- epoxy multi-layer coatings
- epoxy self-levelling products
- existing epoxy resin floors
- concrete walls cast on site
- plastered masonry walls

Internal and external flooring and walls, in domestic, commercial and industrial applications. Suitable for heated substrates.

Do not use
 On wet substrates or substrates 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. Do not use on dusty and flaky substrates or substrates polluted with oil, grease or dirt in general. Not recommended for floors subject to heavy traffic with the presence of sharp or abrasive materials on the ground. Not recommended in the presence of single-wheel electric pallet trucks.

* 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 4% (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.

IMPREGNATION SYSTEM: substrates in smoothed concrete must be sanded and the dust must be removed.

Internal THIN FILM system: substrates in smoothed concrete, after mechanical preparation and removal of dust, should be treated with Factory Primermaxi EP applied with a roller.

Internal THICK FILM system: on substrates in smoothed concrete, after mechanical preparation and removal of dust, 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 metal spreader.

Finishing of internal MULTI-LAYER and SELF-LEVELLING systems and resin-based mortar: sand the surface with 80 grain sandpaper and carefully vacuum before applying Factory Color PU/S.

Varnishing of existing external and internal resin floors: check the compatibility of Factory Color PU/S with the existing resin floor. Clean the substrate thoroughly, sand the surface with 80 grain sandpaper and carefully vacuum before applying Factory Color PU/S.

FILM system for walls: external or internal concrete walls cast on site: sand and remove dust. In the presence of irregular substrates, level with geo-mortars from the GeoLite® range or Kerabuild Eco Fix. Prepare the substrate applying Factory Primermaxi EP diluted up to 30% with DD; alternatively consolidate the substrate applying Factory Color PU/S diluted up to 30% with DD.

Internal plastered masonry walls: sand, remove dust and smooth (if necessary) with Keralevel® Eco or Keralevel® Eco LR added with 15% of Keraplast Eco 337. If necessary, install a reinforcing mesh with Net 90. In the constant presence of water and frequent washing, apply 3CW with a spreader before applying Factory Color PU/S.

Preparation

Factory Color PU/S 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 (coloured version = Part A 7.5 kg : Part B 4.5 kg; neutral version = Part A 6 kg : Part B 4.5 kg). Remix part A to homogenize it; 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.

Dilute the mixture with DD up to 10% for the coloured version and up to 30% for the neutral version in case of impregnation of concrete.

Application

Factory Eco Color PU/S can be applied with a short-bristle roller using the coverage of approx. 100-120 g/m² per coat.

IMPREGNATION SYSTEM: evenly apply the first coat of neutral Factory Color PU/S using the coverage indicated. Once the product has hardened and in any case within a period of 24 hours, apply the second coat of neutral Factory Color PU/S.

THIN FILM and THICK FILM systems and varnishing of existing resin floors: evenly apply the first coat of Factory Color PU/S using the coverage indicated. Once the product has hardened and in any case within a period of 24 hours, apply the second coat of Factory Color PU/S.

Finishing of MULTI-LAYER and SELF-LEVELLING SYSTEMS: evenly apply Factory Color PU/S using the coverage indicated.

Special applications

External decorative FILMS on cement-based screeds and substrates corrected with geo-mortars from the GeoLite® range (thickness of patched layer > 10 mm). Smooth the substrates and carefully vacuum. Apply Factory Primermaxi EP with a roller (diluted up to 30% with DD in case of substrates consisting of porous cement-based screeds) and sprinkle with Quarzo 1.3. Alternatively, apply Factory Color PU/S diluted up to 30% with DD and sprinkle with Quarzo 1.3. Once the product has hardened, eliminate the excess quartz, sand and dust the surface.

Evenly apply Factory Color PU/S using the coverage indicated, diluted to 10% with DD and added with 10% of ground quartz of grain size of approx. 200 microns or with 10% of Quarzo 1.3. Once the product has hardened and in any case within a period of 24 hours, evenly apply Factory Color PU/S using the coverage indicated, diluted to 10% with DD and added with 10% of ground quartz of grain size of approx. 200 microns or with 10% of Quarzo 1.3.

External IMPREGNATION on smoothed concrete substrate or substrates corrected with geo-mortars from the GeoLite® range (thickness of patched layer > 10 mm), apply neutral Factory Color PU/S diluted up to 30% with DD. Once the product has hardened, sand, dust the surface and evenly apply neutral Factory Color PU/S using the coverage indicated, diluted to 10% with DD and added with 10% of ground quartz of grain size of approx. 200 microns or with 10% of Quarzo 1.3

Cleaning

Residual traces of Factory Color PU/S can be removed from tools with DD or Diluente 01 before the product has hardened.

SPECIAL NOTES

Protect from sunshine, rain, frost and air currents for the first 24 hours.

External application is not recommended in direct sunlight, with temperatures above +25 °C.

A second layer of Factory Color PU/S should only be applied no less than 8 hours but no longer than 12 hours after the first coat and in any case within a period of 24 hours. After this time, the surface will have to be carefully sanded before laying the second coat over it.

Before subjecting the floor to washing or accidental or prolonged contact with aggressive chemical substances, wait until the product has completely hardened (min. 7 days).

ABSTRACT

The coloured finish of the multi-layer, self-levelling, resin-based film continuous covering, and resin-based mortar covering, will be created using a coloured high-performance eco-friendly liquid organic finish with a smooth semi-gloss effect, compliant with GreenBuilding Rating 1, such as Factory Color PU/S, by Kerakoll Spa, with a coverage of approx. 120 g/m² per coat.

The transparent impregnation of the smoothed concrete substrate will be created using a neutral high-performance eco-friendly finish with a smooth semi-gloss effect, compliant with GreenBuilding Rating 1, such as Factory Color PU/S, by Kerakoll Spa, with a coverage of approx. 120 g/m² per coat.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	coloured liquid
Shelf life	≈ 24 months in the original packaging
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat
Packaging:	
- coloured	part A 7.5 kg bucket - part B 4.5 kg can
- neutral	part A 6 kg bucket - part B 4.5 kg can
Mixing ratio:	
- coloured	Part A : Part B = 100 : 60
- neutral	part A : part B = 100 : 75
Shine factor:	
- coloured	≈ 50 – 55 gloss
- neutral	≈ 40 – 45 gloss
Pot life	≈ 30 min.
Temperature range for application	from +10 °C to +30 °C
Overlay times	min. 8-12 hrs / max. 24 hrs
Foot traffic	≈ 24 hrs
Interval before normal use *	≈ 48 hrs
Full hardening	≈ 7 days
Coverage	approx. 100-120 g/m ² per coat

* wait for a minimum of 7 days before subjecting the product to washing and/or contact with chemical substances

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 absorbercy level of the substrate.

PERFORMANCE

HIGH-TECH

Resistance to BCA wear	AR 0.5 Class	EN 13892-4
Adhesive strength	B 2.0 Class	EN 13892-8
Resistance to impact	IR 20 Class	EN ISO 6272-1
Suitability in environments with foodstuffs **:		
- determining dirt collection	ΔL < 0.5 (limit ΔL < 3)	
- odour release	0.0 (limit ≤ 1)	
- cleaning	ΔE < 0.5 (limit ΔE < 3)	

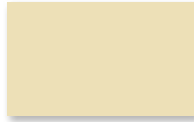
Values taken at +20 °C, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

** Suitability in environments with foodstuffs is to be considered valid from the time the product is put into service. Food and/or foodstuffs must not be present during the application of the product.

COLOUR CHART



RAL 1001



RAL 1015



RAL 3011



RAL 5007



RAL 5012



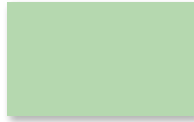
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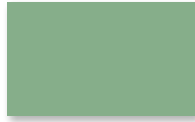
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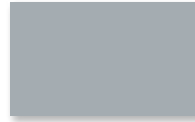
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RAL 6019



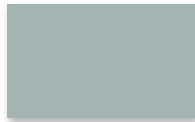
RAL 6021



RAL 7001



RAL 7037



RAL 7038



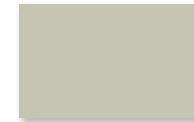
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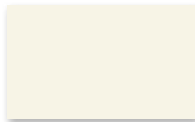
RAL 7042



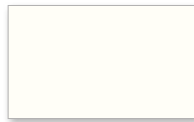
RAL 7043



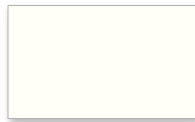
RAL 7044



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.*

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- do not use on unsuitable and/or not suitably prepared substrates
- carefully protect any surfaces and objects in the application area from accidental contact
- dispose of as indicated in applicable legislation
- read the product safety data sheet before use
- 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 November 2019 (ref. GBR Data Report - 12.19); 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.



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