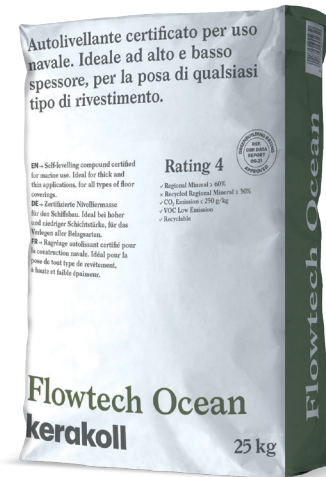


Flowtech Ocean

Self-levelling compound certified for marine use. Ideal for high and low thickness laying of all types of coverings. Low CO₂ emissions and very low volatile organic compound emissions, recyclable as an inert material at the end of its life.

Flowtech Ocean is the ideal solution for shipbuilding professionals. It develops high levels of adhesion on metal substrates and presents a smooth finish which is suitable for large format ceramic slabs and resilient material coverings.



Rating 4

1. Thicknesses from 1 to 30 mm
2. Long self-levelling time, also suitable for large surface areas
3. Approved for marine use
4. Formulated with high-performance raw materials with low environmental impact
5. Suitable for laying ceramic tiles, porcelain tiles, natural stone, hardwood floors, resilient materials

- ✓ Regional Mineral ≥ 60%
- × Recycled Regional Mineral ≥ 30%
- ✓ CO₂ Emission ≤ 250 g/kg
- ✓ VOC Low Emission
- ✓ Recyclable

Areas of application

→ Intended use:

Self-levelling adjustment of irregular and uneven substrates, with extra-rapid setting and drying, compensated shrinkage. For internal applications, thicknesses from 1 to 30 mm.

Compatible adhesives:

- Gel adhesives, mineral adhesives, single- and two-component organic mineral adhesives
- Reactive-epoxy and polyurethane, single and two-component cement-based adhesives, dispersed in water or solvent solutions

Covering materials:

- Porcelain tiles, ceramic tiles, klinker and cotto of all types and formats
- Natural stone, recomposed materials, marble
- Hardwood floors, textiles, rubber, PVC, linoleum

Substrates:

- Internal metal decks
- Mineral screeds produced with Keracem Eco Prontoplus and Keralevel Eco Ultra Light
- cement-based screeds

Interior floors for marine use. Suitable for damp environments.

Do not use in external applications, on high flexible substrates subject to thermal expansion, on wet substrates subject to moisture rising; in environments where water is always present. in outdoor applications.

Instructions for use

→ Preparation of substrates

The substrate must comply with current technical regulations and national standards. In general, substrates must be free of dust, oil and grease, free from any moisture rising, with no loose, flaky or imperfectly anchored parts such as residues of cement, lime, paint coatings and adhesives, which must be completely removed. The substrate must be stable, non-deformable, without cracks and have already completed the curing period of hygrometric shrinkage.

- Low-absorption substrates: smooth surfaces with low absorption levels such as ceramic tiles, marble floor tiles, epoxy paints, residues of oxidised adhesives, metal which are compact and properly anchored, must be prepared by applying Keragrip Eco, an eco-friendly adhesion promoter, following the instructions for use. If necessary, prior mechanical abrasion can also be used. Any substances used for surface treatment, such as wax or parting compounds, must be removed mechanically or using specific chemical products.
- Highly absorbent substrates: on screeds which are compact but very absorbent, apply Primer A Eco diluted according to the degree of absorption of the substrate in order to reduce and regulate the level of absorption. In the case of absorbent substrates with weak consistency apply Keradur Eco. Respect the indicated waiting time before carrying out correction of the surface with a self-levelling product.

→ Preparation

Pour 5 – 5.5 l of clean water into a clean container; then pour in a bag of Flowtech Ocean, while shaking,. Mix with a low-rev electric agitator until a smooth, lump-free and self-levelling mixture is obtained. Larger quantities of Flowtech Ocean may be prepared in suitable mixers. After the first mixing, it is advisable to leave the mixture to rest for approx. 2 minutes and then mix again briefly. Flowtech Ocean features a high degree of self-levelling capacity. Adding extra water does not improve the workability of the product, and may cause shrinkage in the plastic phase of drying and result in less effective final performance with a reduction in surface hardness, compressive strength and adhesion to the substrate.

Instructions for use

→ Application

Flowtech Ocean is generally applied with a smooth spreader or blade. Application with plaster pumps allows the user to very quickly achieve a smooth high-thickness finish for large areas. It is advisable to press down hard with the trowel during application so as to regulate the absorption of water and obtain maximum adhesion to the substrate,. After that, the thickness can be adjusted as required. Use of a lightened, cylindrical-section, levelling bar will be required to free the self-levelling product from air bubbles created by high absorbency levels of the substrate and to obtain a smooth and perfectly even surface.

→ Cleaning

Residual traces of Flowtech Ocean can be removed from tools with water before the product hardens. In the case of machining, clean the machine and the pipes immediately after stopping.

Special notes

→ Joints: allow for expansion around the perimeter, laying the Tapetex Slim compressible tape along the whole perimeter of the room, on the walls and on any other vertical elements protruding from the supporting layer. Large and continuous surface areas need to be fractionized as soon as they can withstand foot traffic so to create areas < 50 m² with 8 m maximum individual size. All the joints located in the substrate must be respected.

→ Laying hardwood floors: for subsequent laying of hardwood floors, create a smooth finish with thickness ≥ 3 mm.

→ Moisture-sensitive coverings: when laying moisture-sensitive coverings the residual moisture of Flowtech Ocean must be checked on site in accordance with current regulations.

→ In order to increase mechanical resistance, flexibility and adhesion on non-absorbent substrates, it is possible to mix the product with P5 Eco latex (mixing ratio 25% by weight).

Certificazioni e marcature



* 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).

Abstract

Certified, high-performance correction of 1 to 30 mm-thick substrates will be carried out with an eco-friendly, quick, mineral self-levelling compound compliant with standard EN 13813 class CT-C30-F7, GreenBuilding Rating 4, such as Flowtech Ocean by Kerakoll Spa. The product is suitable for subsequent laying of ceramic tiles, 4 hours after its application at +23 °C, 50% R.H. Prepare, clean and make the substrate dimensionally stable first, then apply the product with a smooth spreader. Average coverage: ≈ 1.6 kg/m² per mm of thickness created.

Technical Data compliant with Kerakoll Quality Standard	
Appearance	light grey ready-mixed product
Apparent volumetric mass	≈ 1,24 kg/dm³
Grading	0 – 600 µm
Shelf life	≈ 12 months from production in the original sealed packaging
Mixing water	≈ 5 – 5.5 l / 1 bag 25 kg
Pot life	≈ 30 min.
Self levelling time	≈ 20 min.
Temperature range for application	from +5 °C to +30 °C
Maximum thickness	from 1 to 30 mm
Foot traffic	≈ 3 hrs
Waiting time before laying:	
- ceramic tiles	≈ 4 hrs
- hardwood floors and resilient materials	≈ 12 hrs
Coverage	≈ 1.6 kg/m² per mm of thickness

Values taken at +23 °C, 50% 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 and of the materials laid.

Performance**VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions**

Conformity	EC 1 plus GEV-Emicode	GEV certified 13853/11.01.02
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HIGH-TECH

Adhesion to concrete after 28 days	$\approx 3 \text{ N/mm}^2$	EN 13892-8
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Adhesion on porcelain tiles after 28 days *	$\geq 1,5 \text{ N/mm}^2$	
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Adhesion on timber after 28 days *	$\geq 1,5 \text{ N/mm}^2$	
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Adhesion on metal after 28 days *	$\geq 1 \text{ N/mm}^2$	
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Resistance to:

- compressive strength after 28 days	$\geq 33 \text{ N/mm}^2$	EN 13892-2
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- flexural after 28 days	$\geq 7 \text{ N/mm}^2$	EN 13892-2
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- strain parallel to the laying surface after 28 days	$> 2 \text{ N/mm}^2$	UNI 10827
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Surface hardness after 28 days	$\geq 90 \text{ N/mm}^2$	EN 13892-6
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Surface peeling strength, Peel test	$> 2 \text{ N/mm}^2$	EN ISO 22631
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Dimensional stability	$< 0,1 \text{ mm/m}$	EN 13892-9
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Classification/ Conformity	CT-C30-F7	EN 13813
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Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

* Substrates suitably treated with Keragrip Eco.

Warning

- Product for professional use
- abide by any standards and national regulations
- do not use Flowtech Ocean to correct substrate irregularities greater than 30 mm
- Do not add other binders, additives or pigments to the mixture
- low temperatures and high relative humidity lengthen drying times
- An excessive quantity of water will reduce strength and the drying time
- Before laying hardwood floors and resilient materials, check residual moisture with a calcium carbide hygrometer
- Protect from direct sunlight and currents of air for the first 3 hrs
- respect the elastic joints present in the substrate
- if necessary, ask for the safety data sheet
- for particular substrates and other conditions, please consult the Kerakoll Worldwide Global Service +39 0536.811.516



The Rating classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in November 2021 (ref. GBR Data Report - 12.21); 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.