Flowtech Pro

High-performance, rapid self-levelling product for the correction of absorbent substrates before laying ceramic tiles, hardwood floors, industrial coverings.

Flowtech Pro has been formulated in order to guarantee maximum compatibility and adhesion with all kinds of cement-based adhesives for the laying of ceramic tiles and natural stone.

GREENBUILDING RATING
REF. GBR DATA REPORT 08.25
APPROVED

Rating 4

- ✓ Regional Mineral ≥ 60%
- × Recycled Regional Mineral ≥ 30%
- ✓ CO_2 Emission ≤ 250 g/kg
- ✓ VOC Low Emission
- ✓ Recyclable

1. Fibre-reinforced
2. Thicknesses from 5 to 50 mm
3. Long self-levelling time, also suitable for large surface areas
4. Easy to apply also with mixing pumps
5. Formulated with high-performance raw materials with low environmental impact
6. Suitable for laying ceramic tiles, porcelain tiles, natural stone and resins for industrial floors from the Kerakoll Factory range

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Areas of application

→ Intended use
Self-levelling correction of irregular and uneven substrates, with rapid setting and drying, and compensated shrinkage. Thicknesses from 5 to 50 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
- single– and two-component organic adhesives for hardwood floor laying

Covering materials:
- porcelain tiles, ceramic tiles, klinker and cotto of all types and formats
- natural stone, recomposed materials, marble
- hardwood floors
- resins for industrial floors from the Kerakoll Factory range

Substrates:
- mineral screeds made with Keracem Eco Pronto, Keracem Eco Prontoplus, Rekord Eco Pronto, Massetto Premix and Keracem Eco as binder or pre-mixed product
- cement-based screeds
- calcium sulphate-based screeds
- prefabricated concrete or fresh concrete castings

Internal floors in domestic and commercial applications.

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

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.

In particular, substrates must be treated with a suitable primer as shown in the table below:

Substrate	Primers	Dilution with water
Cement-based screeds	Active Prime Fix	Undiluted or diluted*
Calcium sulphate-based screeds	Active Prime Fix	Undiluted
Concretes	Active Prime Fix	Undiluted or diluted %*
	Active Prime Grip	Undiluted

** depending on the grade of absorption of the substrate, see primer's technical data sheet*

→ Preparation
Pour 4.75-5.25 l of clean water into a clean container; then pour in a bag of Flowtech Pro, while shaking. Mix with a low-rev electric agitator until a smooth, lump-free and self-levelling mixture is obtained. Larger quantities of Flowtech Pro 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 Pro 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.

→ Application
Flowtech Pro is generally applied with a smooth spreader or float. Application with mixing pumps enables homogeneous correcting in a very short time on large continuous surfaces. It is advisable to press down hard with the trowel during

Instructions for use

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.
In the case of low temperatures and high humidity it is advisable to keep the environment ventilated during application and during the hours immediately following application, in order to avoid the formation of condensation on the surface of the self-levelling product during the setting phase. Protect from air currents at actual floor level.

→ Cleaning
Residual traces of Flowtech Pro can be removed from tools using water before the product hardens.

Special notes

→ Joints: allow for expansion around the perimeter, laying the Tapetex Plus or 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.
→ Inconsistent screeds: use Keradur Eco to consolidate the screed. Keradur Eco must be spread evenly across the surface to be treated using a brush, roller or sprinkler, checking that it is absorbed totally by the substrate. Apply Active Prime Fix primer the following day. Overlaying: if an additional correction layer is required, it is necessary to wait ≈ 5-7 days, depending on the thickness created, and then apply Active Prime Fix and overlay. Maximum achievable thickness (two coats): 6 cm.
→ Hardwood floors: for subsequent laying of hardwood floors, create a smooth finish with thickness ≥ 5 mm. Before laying the hardwood floor, always check residual moisture on site using a calcium carbide hygrometer; it should be less than 2.5%.
→ Underfloor heating systems (hydronic or electric): for the installation of Flowtech Pro on underfloor heating systems, the self-levelling product must be bonded to a rigid substrate (cement- or anhydrite-based screeds) properly treated with a suitable primer. Flowtech Pro cannot be applied floating or desolidarised. The minimum thickness above the system must be 5 mm, except in cases where the overlying covering requires a greater thickness. After 7 days from the installation of Flowtech Pro, proceed with the initial start-up cycle of the system in accordance with the requirements of standard EN 1264-4.

Certificates and marks

CE EN 13813 · CT C30-F7 EN 13813 · eco Base · GEV-EMICODE EC 1 PLUS very low emission · RTS EMISSION CLASS FOR BUILDING MATERIAL M1 · QB · ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

** 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).*

Technical Data compliant with Kerakoll Quality Standard		
Appearance	grey pre-mixed	
Apparent volumetric mass	≈ 1.24 kg/dm³	
Mineralogical nature of inert material	silicate – crystalline carbonate	
Grading	0 – 1500 µm	
Shelf life	≈ 9 months from the date of production in the original, unopened packaging; protect from humidity	
Mixing water	≈ 4.75 – 5.25 l / 1 bag 25 kg	
Specific weight of the mixture	≈ 2.10 kg/dm³	UNI 7121
Self levelling time	≈ 30 min.	
End setting time	≈ 50-70 min.	
Temperature range for application	from +5 °C to +30 °C	
Maximum thickness	between 5 and 50 mm	
Foot traffic	≈ 3 hrs	
Waiting time before laying:		
- ceramic tiles, porcelain tiles, natural stone	≈ 12 hrs	
- hardwood floors	≈ 24 hours thickness (10 mm)	
- resins for industrial floors from the Kerakoll Factory range	≈ 24 hours thickness (10 mm)	
Coverage	≈ 1.75 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 14691/11.01.02
HIGH-TECH		
Adhesion to concrete after 28 days	≈ 2.0 N/mm²	EN 13892-8
Resistance to:		
- compressive after 24 h	≥ 14 N/mm²	EN 13892-2
- compressive after 7 days	≥ 22 N/mm²	EN 13892-2
- compressive strength after 28 days	≥ 30 N/mm²	EN 13892-2
- flexural after 28 days	≥ 7 N/mm²	EN 13892-2
Dimensional stability	< 0.5 mm/m	EN 13892-9
Classification/Conformity	CT–C30–F7	EN 13813
Classification CSTB	P4S	QB 213 S 200

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Warning

→ Product for professional use
→ abide by any standards and national regulations
→ do not use Flowtech Pro to correct substrate irregularities greater than 50 mm in a single coat
→ do not add other binders, additives or pigments to the mixture
→ low temperatures and high relative humidity lengthen the drying time and can saturate the environment; this may have a negative effect on the quality of the surface of the self-levelling product
→ an excessive quantity of water will reduce strength and the drying time
→ protect from direct sunlight and air currents for the first 4 hrs
→ respect the elastic joints present in the substrate
→ 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

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo - MO

+39 0536.816.511
info@kerakoll.com

www.kerakoll.com