Code: P1225 2025/11 EN

Planogel Rheo

Self-levelling gel with variable rheology and viscosity. Prolonged workability and reduced waiting times before laying.

The innovative formula based on raw materials with low environmental impact and high technological content, allows the application professional to regulate the fluidity of the mix, combining and calibrating control capacity under the spreader and extreme fluidity. Planogel Rheo is ideal for applications on all types of bonded substrates and all types of coverings.

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. Thicknesses from 1 to 30 mm
2. Long self-levelling time, also suitable for large surface areas
3. Easy to apply also with plastering machines
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, resins
6. High dimensional stability and long-lasting performance

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Areas of application

→ Intended use:
Self-levelling adjustment of irregular and uneven substrates, with extra-rapid setting and drying, compensated shrinkage. 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, LVT, linoleum, carpet
- raised floors
- Cementoresina
- thick multi-layer systems from the Kerakoll Factory range (domestic and commercial environments)

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
- ceramic floors
- wooden floors
- OSB panels
- gypsum fibre or fibre-cement panels
- metal substrates

Internal floors in domestic, commercial and industrial 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
	Active Prime Grip	Undiluted
Calcium sulphate-based screeds	Active Prime Fix	Undiluted
	Active Prime Grip	Undiluted
Concretes	Active Prime Fix	Undiluted or diluted
	Active Prime Grip	Undiluted
Ceramic floors	Active Prime Fix	Undiluted
	Active Prime Grip	Undiluted
Timber substrates	Active Prime Fix	Undiluted
	Active Prime Grip	Undiluted
Gypsum fibre or fibre-cement panels	Active Prime Fix	Undiluted
	Active Prime Grip	Undiluted
Metal substrates	Active Prime Fix	Undiluted
	Active Prime Grip	Undiluted

→ Preparation
Pour 4.75-5.5 l of clean water into a clean container; then pour in a bag of Planogel Rheo, while shaking,. Mix with a low-rev electric agitator until a smooth, lump-free and self-levelling mixture is obtained. Larger quantities of Planogel Rheo 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. Planogel Rheo features a high degree of self-levelling capacity. Adding extra water does not improve its workability, 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
Planogel Rheo is generally applied with a smooth spreader or float. Application with mixing pumps enables homogeneous, very thick correcting of large continuous surfaces in a very short time. 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 (in case of high thicknesses) or a specific roller to remove air bubbles (in case of low thicknesses) will be required to free the self-levelling gel from

Instructions for use

air bubbles created by high absorbency levels of the substrate and to obtain a smooth and perfectly even surface. If an additional correction layer is required, it must be applied as soon as the previous layer is ready for foot traffic (≈ 3 hrs at +23 °C and 50% R.H.) and only after the application of Active Prime Fix eco-friendly adhesion promoter, following the instructions for use. After this time, it is necessary to wait ≈ 5-7 days, depending on the thickness created, then apply Active Prime Fix and overlay. 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 gel during the setting phase. Protect from air currents at actual floor level.

→ Cleaning
Residual traces of Planogel Rheo 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 < 100 m² with 10 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.
→ Hardwood floors: for subsequent laying of hardwood floors, create a smooth finish with thickness ≥ 3 mm.
→ Resins for industrial floors: please refer to the technical data sheets of the selected multi-layer system.
→ Moisture-sensitive coverings: when laying moisture-sensitive coverings the residual moisture of Planogel Rheo must be checked on site in accordance with current regulations.
→ Underfloor heating systems (hydronic or electric): for the installation of Planogel Rheo on underfloor heating systems, the self-levelling product must be bonded to a rigid substrate (cement- or anhydrite-based screeds, dry panels, ceramic floors) properly treated with a suitable primer. Planogel Rheo cannot be applied floating or desolidarised. When laying ceramic tiles and natural stones the minimum thickness above the systems must be 5 mm. After 7 days from the installation of Planogel Rheo, 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 · GEV-EMICODE EC 1 PLUS very low emission · EPD-IES-0003065 environdec.com · eco Base · M1 EMISSION CLASS FOR BUILDING MATERIALS · EMISSIONS 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	≈ 1.22 g/dm³	
Mineralogical nature of inert material	silicate – crystalline carbonate	
Grading	0 – 600 µm	
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Mixing water	≈ 4.75-5.5 l / 1 bag 25 kg	
Specific weight of the mixture	≈ 2 g/dm³	UNI 7121
Self levelling time	≈ 20 min.	
End setting time	≈ 50-70 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, porcelain tiles, natural stone	≈ 4 hrs	
- hardwood floors	≈ 12 hrs	
- resilient materials	≈ 12 hrs	
- Resins	≈ 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 13964/11.01.02
HIGH-TECH		
Adhesion to concrete after 28 days	≈ 3 N/mm²	EN 13892-8
Adhesion on porcelain tiles after 28 days *	≥ 1.5 N/mm²	
Adhesion on timber after 28 days *	≥ 1.5 N/mm²	
Adhesion on metal after 28 days *	≥ 1 N/mm²	
Resistance to:		
- compressive strength after 4 hrs	≥ 10 N/mm²	EN 13892-2
- compressive after 24 h	≥ 20 N/mm²	EN 13892-2
- compressive after 7 days	≥ 25 N/mm²	EN 13892-2
- compressive strength after 28 days	≥ 33 N/mm²	EN 13892-2
- flexural after 28 days	≥ 7 N/mm²	EN 13892-2
- Böhme wear after 28 days	> 22 cm³ / 50 cm²	EN 13892-3
- strain parallel to the laying surface after 28 days	> 2 N/mm²	UNI 10827
Surface hardness after 28 days	≥ 90 N/mm²	EN 13892-6
Surface peeling strength, Peel test	> 2 N/mm²	EN ISO 22631
Dimensional stability	< 0,1 mm/m	EN 13892-9
Classification/Conformity	CT–C30–F7	EN 13813

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.
* Substrates properly treated with a suitable primer.

Warning

→ Product for professional use
→ abide by any standards and national regulations
→ do not use Planogel Rheo 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 and may saturate the environment with negative consequences on the surface consistency of the self-levelling gel
→ 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 unstable wooden types, particular substrates and for any other issues, contact the Kerakoll Worldwide Global Service +39 0536.811.516 – globalservice@kerakoll.com

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