

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.



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

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
- yextiles, 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 Pronto, Keracem Prontoplus, Rekord Pronto, Massetto Premix and Keracem 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
 - underfloor heating systems with adhesive rear surface bonded to the substrate
- 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 listed below:

- cement-based screeds with Active Prime Fix undiluted or diluted
- calcium sulphate-based screeds with Active Prime Fix undiluted
- concrete with Active Prime Fix undiluted or diluted or with Active Prime Grip undiluted
- ceramic floors Active Prime Fix undiluted or with Active Prime Grip undiluted
- timber substrates with Active Prime Fix undiluted or with Active Prime Grip undiluted
- gypsum fibre or fibre-cement panels with Active Prime Fix undiluted or with Active Prime Grip undiluted
- metal substrates with Active Prime Fix undiluted or with 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

Instructions for use

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 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 $+23^{\circ}\text{C}$ and 50% R.H.) but after the application of the rapid universal adhesion promoter Active Prime Fix, following the instructions for use. After this time, it is necessary to wait $\approx 5-7$ 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:** desolidarise the self-levelling gel 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 $< 100\text{ m}^2$ with 10 m maximum individual size. All the joints located in the substrate must be respected.
- **Inconsistent screeds:** use Keradur to consolidate the screed. Keradur 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 $\geq 3\text{ mm}$
- **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.

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 a quick, mineral self-levelling compound compliant with standard EN 13813 class CT-C30-F7, such as Planogel Rheo by Kerakoll Spa. The product is suitable for subsequent laying of ceramic tiles 4 hrs after its application and of hardwood floors and resilient materials 12 hrs after its application, in both cases 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: $\approx 1.6 \text{ kg/m}^2$ per mm of thickness created.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	grey pre-mixed	
Apparent volumetric mass	≈ 1.22 kg/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 kg/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/mm ²	EN 13892-8
Adhesion on porcelain tiles after 28 days*	≥ 1.5 N/mm ²	
Adhesion on timber after 28 days*	≥ 1.5 N/mm ²	
Adhesion on metal after 28 days*	≥ 1 N/mm ²	
Resistance to:		
- compressive strength after 4 hrs	≥ 10 N/mm ²	EN 13892-2
- compressive after 24 h	≥ 20 N/mm ²	EN 13892-2
- compressive after 7 days	≥ 25 N/mm ²	EN 13892-2
- compressive strength after 28 days	≥ 33 N/mm ²	EN 13892-2
- flexural after 28 days	≥ 7 N/mm ²	EN 13892-2
- böhme wear after 28 days	> 22 cm ³ / 50 cm ²	EN 13892-3
- strain parallel to the laying surface after 28 days	> 2 N/mm ²	UNI 10827
Surface hardness after 28 days	≥ 90 N/mm ²	EN 13892-6
Surface peeling strength, Peel test	> 2 N/mm ²	EN ISO 22631
Dimensional stability	< 0.1 mm/m	EN 13892-9
Classification/Conformity	CT-C30-F7	EN 13813
<small>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.</small>		

Warning

- 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 Technical Customer Service Kerakoll:
+ 39 0536.811.516
www.kerakoll.com/contatti



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