

Planogel Rheo

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

kerakoll

Planogel Rheo, self-levelling gel with variable rheology and viscosity.



Planogel Rheo is the first self-levelling gel, with product EPD, designed to ease the work of application professionals and guarantee **maximum flexibility of use**.

The innovative gel formula combines two fundamental requirements in terms of workability: **extreme fluidity and lightness of application**, with perfect **control of the mixture under the** application professional's **trowel**.

Resistance, compactness, surface quality and evenness ensure the best substrate preparation before laying and always guarantees the application professional a successful installation.



We have overcome an impossible challenge: to create a self-levelling gel mix with variable rheology and viscosity that eases the work of laying professionals.

The perfect formula is born from the clever mix of innovative high-performance materials.

Planogel Rheo goes beyond the traditional concept of a self-levelling compound thanks to an exclusive formula based on a new hybrid binding system, a clever mix of innovative materials and special inert minerals.

The **hybrid binding system** is created by combining the innovative Kerakoll geo-binder with special high-performance hydraulic binders that guarantee rapid achievement of mechanical strengths and absolute control over hygrometric shrinkage.

A mix of **new raw materials** completes the gel formula and allow for the achievement of the best performance in terms of workability and resistance.

Selected inert materials (pure calcium carbonate and fine siliceous sand) in a calibrated grain size curve ensure excellent fluidity of the liquid mixture and a smooth finish.

Planogel Rheo is the first self-levelling gel designed in collaboration with application professionals and subject to extensive on-site tests and validation plans.



The development of the formula is based on a design cycle aimed at anticipating and meeting the needs of the laying professional.

Planogel Rheo, unparalleled workability and control.

When applied to self-levelling products, Gel-Technology makes it possible to obtain the first universal product with variable rheology and viscosity, ideal for all surfaces and laying conditions.

The **variable rheology** is the possibility of adjusting the fluidity of the product by modifying its mixing ratio in order to meet workability requirements and conditions of use.

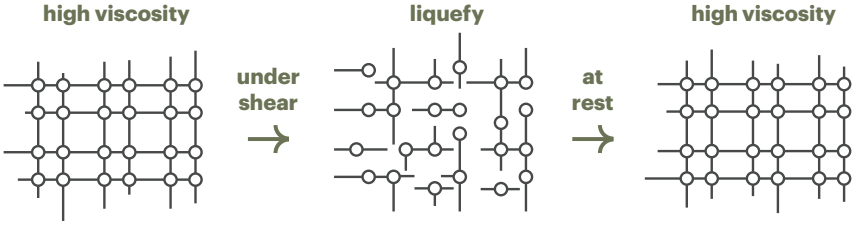
Variable viscosity is the property of the gel mix to modify its consistency according to the stresses to which it is subjected.

In a nutshell, Planogel Rheo is **fluid and light** when applied with **rapid, dynamic and large sweeps**. The mixture becomes fluid and achieves perfect evenness with no overlaps. When applied with **slower, more precise and controlled sweeps** of the trowel the gel mix is more viscous in order to allow application professionals to achieve the desired thickness as well as a perfect laying surface.

GEL TECHNOLOGY

VMA (Viscosity Modifying Agent) System

Thanks to the introduction of this biopolymer, the mixture acquires its gel property, which is able to differently adjust its viscosity depending on the dynamic energy exerted by the application professional with the trowel.



The innovative universal self-l
even, resistant and stable subs

UNIVERSAL, designed for both application professionals and building sites

Under standard conditions, the perfect balance of the formulation mix guarantees a long workability (wet edge) of about 20 minutes even on the most absorbent substrates and a waiting time before laying ceramic tiles of only 4 hours. Prolonged workability, accelerated hardening and superior performance make Planogel Rheo the ideal self-levelling gel for all building sites, especially in building renovation, where agility and speed are crucial.

SAFE, stable, with no defects

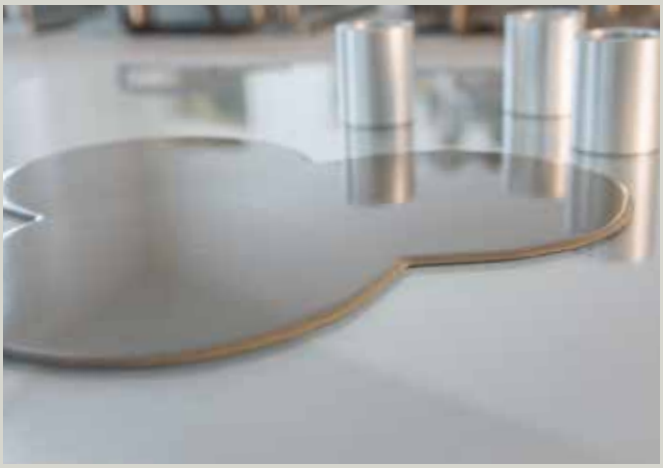
Planogel Rheo guarantees a perfectly level substrate with no cracks or warping to ensure the floor will be perfectly laid. Planogel Rheo can be used to create jointless surfaces of up to 100 m². The dimensional stability test according to EN 13892-9, allows monitoring of shrinkage from the early stages of hardening. **Shrinkage < 0,2 mm/m**

RESISTANT, superior adhesion on all types of substrates

The innovative, latest-generation terpolymer enables maximum adhesion and resistance on all types of substrates, both absorbent and non-absorbent.

The Pull-Off test, according to EN 13892-8, allows the verification of adhesion and debonding performances.

Class B2,0. Adhesion to concrete > 2,5 N/mm²





evelling gel that easily creates strates.

FAST, high capacity for rapid development of mechanical strengths

The perfect balance between hydraulic binders and the Kerakoll geo-binder allows for rapid development of mechanical strengths, with the advantage of speeding up work on site and installation times. Planogel Rheo achieves excellent performance according to standard EN 13892-2 and is therefore suitable for laying all types of floors for all uses. **Class C30 F7**

COMPACT, suitable as well for direct laying of hardwood floors

The high mechanical performance in conjunction with greater surface compactness have allowed Planogel Rheo to exceed the limit of 1.6 N/mm² according to Italian standard UNI 11371, test method UNI 10827. Planogel Rheo is suitable for the direct laying of hardwood floors without the need for the standard surface consolidating treatment required for other laying surfaces. **Shear adhesion > 2 N/mm²**

EVEN AND SMOOTH, "silk effect" surface, ideal for light and resilient floors

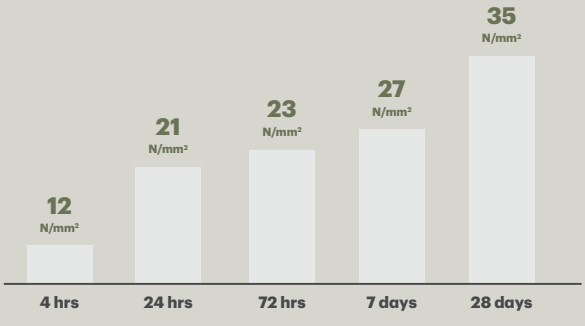
Planogel Rheo has a compact and resistant surface finish that is perfectly homogeneous and extremely smooth, designed to meet the needs of even the most demanding light rubber and PVC floors laying professionals.

Planogel Rheo surface resistance is verified by 3 tests:

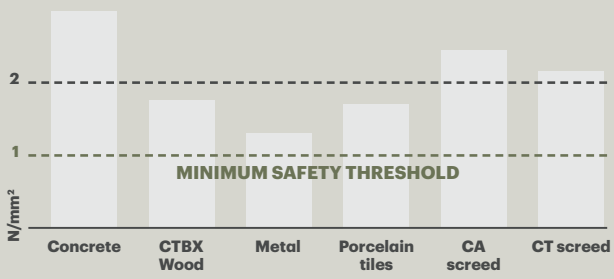
_Resistance to wear according to the Böhme method, according to EN 13892-3, to test wear resistance of the exposed cast surface by abrasion with corundum on a rotating disc. **Class A22**

_Surface hardness, according to EN 13892-6, to test the surface hardness using a half sphere in contact with the exposed cast surface. **Class SH90**

_Peel Test, according to EN ISO 22631, to measure the surface peeling strength in a test featuring direct laying of resilient material coverings. **Adhesion for Peel Test > 2 N/mm²**



Planogel Rheo ensures high compressive strength after only a few hours, making it suitable for laying ceramic tiles from the very beginning.



Planogel Rheo's adhesion on different types of substrates, suitably prepared and treated with suitable primers.

The data shown were measured under laboratory conditions.



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