

# Levelflex Gel

Rapid-setting fibre reinforced self levelling compound with Gel-Technology. Free flowing with variable rheology and prolonged workability.

Levelflex Gel's variable rheology and viscosity allows for exceptional control under the trowel that can be adapted to meet the specific requirements of your project. Whether a flowable self-smoothing layer is required or a more robust trowelable self-levelling application, Levelflex Gel delivers outstanding results every time.

1. Superior self levelling capabilities
2. Effortless application
3. Excellent surface finish
4. Thicknesses from 2 to 100 mm
5. Coverage of 6.5 m<sup>2</sup> at 2 mm
6. Suitable for use with mechanical pump applications
7. Formulated with high-performance raw materials with low environmental impact
8. Suitable for installing ceramic, porcelain, natural stone and mosaic tiles
9. Suitable for use with large format tiles



## Rating 4

- ✓ Regional Mineral ≥ 60%
- × Recycled Mineral ≥ 30%
- ✓ CO<sub>2</sub> ≤ 250 g/kg
- ✓ VOC Very Low Emission
- ✓ Recyclable

## Areas of application

### → Intended use:

Self-levelling adjustment of irregular and uneven substrates, with rapid setting and drying, compensated shrinkage. Thicknesses from 2 to 100 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 and ceramic tiles
- natural stone, recomposed materials, marble
- mosaic tiles
- decorative resins from the Kerakoll Color Collection range
- resins for industrial floors from the Kerakoll Factory range (film systems for foot traffic in domestic environments, multilayer systems for foot traffic in commercial environments)

### Substrates:

- mineral screeds made with Keracem Eco as binder or pre-mixed product
- cement-based screeds
- calcium sulphate-based screeds
- prefabricated concrete or fresh concrete castings
- ceramic floors
- flooring grade plywood
- gypsum fibre or fibre-cement panels
- metal substrates

Internal floors in domestic, commercial and industrial applications.

Do not use in external applications or areas that are continually submerged.

## Instructions for use

### → Preparation of substrates

The substrate must comply with current British standards and industry regulations. 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, 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	Primer A Eco	Diluted
Calcium sulphate-based screeds	Primer A Eco	Undiluted
Concretes	Primer A Eco	Diluted
Ceramic floors ceramic tiles	Keragrip Eco	Undiluted
Flooring grade plywood	Primer A Eco	Diluted
Gypsum fibre or fibre-cement panels	Primer A Eco	Diluted
Metal substrates	Keragrip Eco	Undiluted

### → Preparation

Pour 4.5 - 5.2 l of clean water into a clean container; then pour in a bag of Levelflex Gel, while shaking. Mix with a mechanical mixer until a smooth, lump-free and self-levelling mixture is achieved. Larger quantities of Levelflex Gel 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. Levelflex Gel 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.

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## Instructions for use

### → Application

Levelflex Gel is generally applied with a flooring trowel. Application with mechanical pumps allows the installer to very quickly achieve a smooth high-thickness finish for large areas. The use of an aeration or spike roller can be used but is not required to further improve the surface finish of Levelflex Gel, but will work to remove entrapped air from the mixture. If an additional application of Levelflex Gel is required once the initial application has been completed, the first installation layer must first be hardened and ready to accept foot traffic and additional application, this is generally after 90

minutes. The initial layer of Levelflex Gel must be primed with a neat coat of Primer A Eco prior to subsequent applications. 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.

### → Cleaning

Residual traces of Levelflex Gel can be removed from tools using water before the product hardens.

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## Special notes

→ Joints: perimeter expansion must be allowed for in the application of self levelling compounds. Perimeter expansion edging strip must be installed 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 broken into bays as soon as they can withstand foot traffic so to create areas < 100 m<sup>2</sup> with 10 m maximum individual size. All movement or expansion joints located in the substrate must be respected.

→ Hardwood floors: for subsequent laying of hardwood floors, create a smooth finish with thickness  $\geq 3$  mm.  
→ Moisture-sensitive coverings: when laying moisture-sensitive coverings the residual moisture of Levelflex Gel must be checked on site in accordance with current regulations

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## Certificates and marks



<b>Technical Data compliant with Kerakoll Quality Standard</b>		
Appearance	grey pre-mixed	
Apparent volumetric mass	≈ 1.17 g/dm <sup>3</sup>	
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	≈ 4.5 - 5.2 l / 1 bag 20 kg	
Specific weight of the mixture	≈ 2.01 g/dm <sup>3</sup>	UNI 7121
Self levelling time	≈ 30 min.	
End setting time	≈ 90 min.	
Temperature range for application	from +5 °C to +35 °C	
Maximum thickness	from 2 to 100 mm	
Foot traffic	≈ 90 min.	
Waiting time before laying:		
- ceramic, porcelain, natural stone and mosaic tiles	≈ 90 min.	
- resins	≈ 12 hrs	
Coverage	≈ 1.525 kg/m <sup>2</sup> 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 absorbcency 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 17676/11.01.02
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**HIGH-TECH**

## Resistance to:

- compressive after 24 h	$\geq 8 \text{ N/mm}^2$	EN 13892-2
- compressive after 7 days	$\geq 15 \text{ N/mm}^2$	EN 13892-2
- compressive strength after 28 days	$\geq 25 \text{ N/mm}^2$	EN 13892-2
- flexural after 28 days	$\geq 7 \text{ N/mm}^2$	EN 13892-2
- böhme wear after 28 days	$> 22 \text{ cm}^3 / 50 \text{ cm}^2$	EN 13892-3

Classification/Conformity	CT-C25-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.

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## Warning

- Product for professional use
- abide by any British standards and industry regulations
- do not use Levelflex Gel to correct substrate irregularities greater than 100 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 hygrometer
- respect any movement or expansion 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 01772 456 831 - [info@kerakoll.co.uk](mailto:info@kerakoll.co.uk)



The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in January 2023 (ref. GBR Data Report - 01.24); please note that additions and/or amendments to this information may be made over time by KERAKOLL Spa; for the latest version, see [www.kerakoll.com](http://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.