

# Levelflex External

Rapid-setting fibre reinforced self levelling compound for external and submersible projects. Free flowing and highly workable.

Levelflex External is ideal for use in wet areas and swimming pools as part of the Kerakoll swimming pool system. Specially formulated to maintain performance whilst submerged, Levelflex External is ideal for smoothing surfaces prior to tiling and can be left uncovered as a wearing surface.



## Rating 4

1. High resistance to water and frost
2. Ideal for levelling swimming pool floors
3. Suitable for exposed applications
4. Fibre-reinforced
5. Thicknesses from 2 to 50 mm
6. Coverage of 6.0 m<sup>2</sup> at 2 mm
7. Suitable for use with mechanical pumps
8. Formulated with high-performance raw materials with low environmental impact
9. Suitable for laying ceramic, porcelain, natural stone and mosaic tiles

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

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## Areas of application

### → Intended use:

Self-levelling correction of irregular and uneven substrates, in external and submerged installations, such as external patios and terraces, swimming pools and water features. Rapid setting and drying and shrinkage compensated. Can be applied from 2 mm 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

### Covering materials:

- ceramic, porcelain, natural stone and mosaic tiles
- resins for industrial floors from the Kerakoll Factory range

### Substrates:

- mineral screeds made with Keracem Eco as binder or pre-mixed product
- cement-based screeds
- prefabricated concrete or fresh concrete castings

External floors in domestic and commercial applications.

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## 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, 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	Primer A Eco	Diluted
Concretes	Primer A Eco	Diluted

### → Preparation

Pour 3.5 - 4.2 l of clean water into a clean container; then pour in a bag of Levelflex External, while shaking. Mix with a mechanical mixer until a smooth, lump-free and self-levelling mixture is achieved. Larger quantities of Levelflex External 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 External 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.

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## Instructions for use

### → Application

Levelflex External is generally applied with a flooring trowel. Application with a mechanical pump enables homogeneous correcting in a very short time on large continuous surfaces. The use of a spike roller or aeration roller can be used to further improve the surface finish of Levelflex External by removing entrapped air from the mixture.

### → Cleaning

Residual traces of Levelflex External 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 fractionized 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.

→ Overlaying: if an additional application of Levelflex External 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 3 hours. The initial layer of Levelflex External must be primed with a neat coat of Primer A Eco prior to subsequent applications.

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## Certificates and marks



<b>Technical Data compliant with Kerakoll Quality Standard</b>		
Appearance	grey pre-mixed	
Apparent volumetric mass	≈ 1.18 kg/dm <sup>3</sup>	
Mineralogical nature of inert material	silicate - crystalline carbonate	
Grading	0 – 600 µm	
Shelf life	≈ 12 months from the date of production in the original, unopened packaging; protect from humidity	
Mixing water	≈ 3.8 - 4.2 l / 1 bag 20 kg	
Specific weight of the mixture	≈ 2.03 kg/dm <sup>3</sup>	UNI 7121
Self levelling time	≈ 30 min.	
End setting time	≈ 3 hrs	
Temperature range for application	from +5 °C to +35 °C	
Maximum thickness	between 2 and 50 mm	
Foot traffic	≈ 3 hrs	
Waiting time before laying:		
- ceramic, porcelain, natural stone and mosaic tiles	≈ 3 hrs	
Coverage	≈ 2.50 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 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 17675/11.01.02
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**HIGH-TECH**


## Resistance to:

- compressive after 24 h	≥ 8 N/mm <sup>2</sup>	EN 13892-2
- compressive after 7 days	≥ 15 N/mm <sup>2</sup>	EN 13892-2
- compressive strength after 28 days	≥ 25 N/mm <sup>2</sup>	EN 13892-2
- flexural after 28 days	≥ 6 N/mm <sup>2</sup>	EN 13892-2
Classification/Conformity	CT-C25-F6	EN 13813

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 British standards and industry regulations
- do not use Levelflex External 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
- respect any movement or expansion joints present in the substrate
- if necessary, ask for the safety data sheet
- 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 2024 (ref. GBR Data Report – 01.24); please note that additions and/or amendments 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.