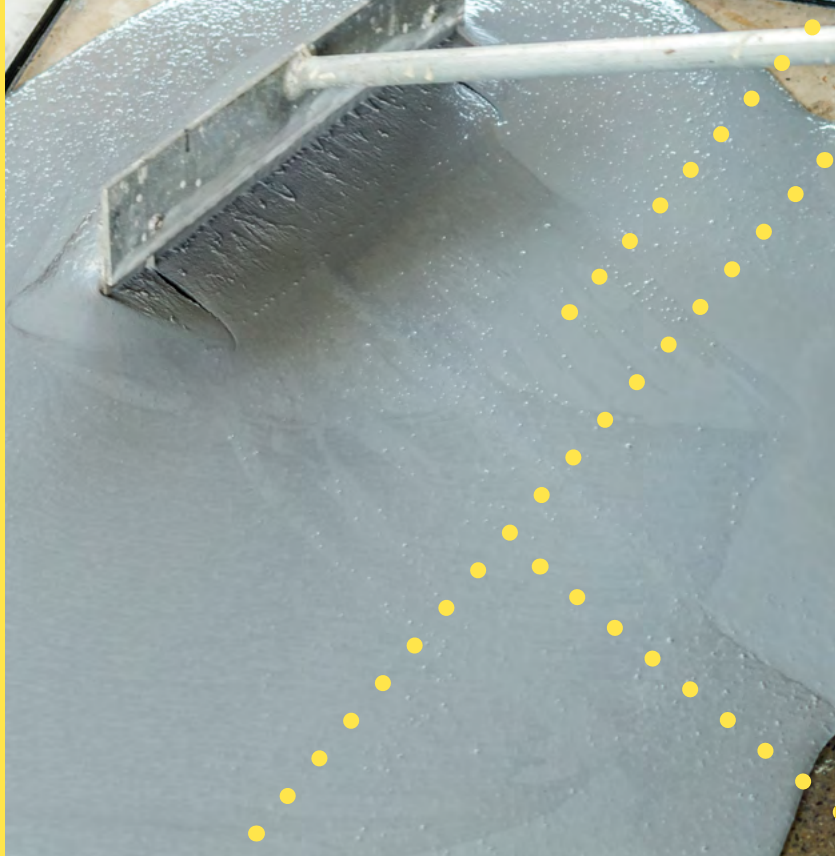


**SELF - LEVELING**

# LEVELAND 5/50



## Description:

Normal setting, pumpable, self-leveling mortar for regularization and smoothing from 5 to 50 mm thick on new or pre-existing surfaces. Specially designed for laying light and wooden flooring.

## Uses and fields of application:

Flooring repair both in new construction and rehabilitation. Leveling and smoothing of concrete, ceramic and natural stone floors. It is suitable for heated floors. This product is only suitable for indoor use.

## Properties:

- Normal setting; Walkable 24 hours. Recoverable after 7 days.
- Pumpable and self-leveling.
- Thanks to its fluidity and extension it achieves very smooth surfaces with high planimetry.
- Compensated retraction (without cracking).
- High adhesion and hardness, both in mass and surface. Support - Pressed hydraulic tiles.

## Support

- Coarse heavy concrete.
- Old floors that are healthy and with good adherence to the support (always previously removing: dust, grease, saltpeter).

- The concretes and mortars as support must have a minimum resistance of 12 Mpa.

## Cautions:

- The perimeter joint should always be used and it is recommended to cut the structural joints of the concrete.
- Do not add more water to the product than recommended.
- Do not apply to floors with permanent humidity or susceptible to humidity due to capillary lift. Nor on metal supports.
- Do not apply outdoors or at temperatures that are not in a range of +5 C° and 25 C°.
- Do not apply subsequent coats without prior preparation of the support.

## Packaging:

It comes in 25kg bags. Pallet of 50 bags. 1250 kg.



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## IMPLEMENTATION RULES

### Preparation of the substrate:

The substrate must be settled, dry, free of dust, grease and other impurities that could make adhesion difficult. If necessary, the substrate should be mechanically treated by mechanical abrasion or shot blasting. This process is always necessary on ceramic or natural stone supports and the like. Any possible cracks or fissures in the screeds must be previously repaired with **MR TRIX**.

**On porous substrates** apply PRIMER DUR primer. Two coats of primer will be applied, the first diluted 1: 1 with clean water and the second pure, leaving the necessary time between coats for the primer to be dry to the touch. **On non-porous substrates**, apply the **ECOLANIC ECOPOXI PRIMER NP** epoxy primer saturated with quartz aggregate. After vacuuming the excess aggregate, apply **LEVELAND 5-50**.

### Preparation of the pasta:

Pour the product in a carrycot with 4-4.5 liters of clean water, shake and mix with an electric mixer at low revolutions until obtaining a homogeneous, lump-free and self-leveling mixture. Let stand for at least 3 minutes and mix again slightly to start applying the product. The amount of LEVELAND kneaded each time must be that necessary to be used within a maximum period of 60 minutes. (at 23 C°). Do not add more water than indicated to the product as it may cause settling of the mass and weaken the mechanical properties of the mortar.

### Product application:

Spread the material with a single layer between 5 and 50 mm thick using a leveling trowel. It is advisable to pass the barbed roller within the allowable open time to help release any trapped air. **LEVELAND** is suitable to be applied using a plaster pump. In case of applying more than one coat, it is advisable to extend it once the first coat is walkable (approximately 24 hours). In case of applying a second coat on a dry coat, the support must be re-primed as indicated in the preparation of supports. Once the application is finished, it must be protected from drafts, direct sunlight or excessive temperature. For parquet application, the minimum recommended thickness of **LEVELAND** is 5 mm. In urgent applications, it is important to control the moisture content of the product using an electronic or carbide hygrometer.

### Consumption:

Consumption is 1.9kg per m<sup>2</sup> and mm thick.

### Cleaning:

The material can be cleaned fresh under running water. Once dry, mechanical means are needed.

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## TECHNICAL DATA characteristic values

### Product identification data

<b>Granulometry:</b>	<1,0 mm
<b>Apparent density:</b>	1450 kg/m <sup>2</sup>
<b>Paste bulk density:</b>	2250 kg/m <sup>2</sup>
<b>Hardened bulk density:</b>	2250 kg/m <sup>2</sup>
<b>PH of the mix:</b>	12 ± 1
<b>Solid waste</b>	100 %
<b>Appearance:</b>	gray fine powder
<b>Colour:</b>	bags 25 kg
<b>Presentation:</b>	3824 50 90
<b>Tariff heading:</b>	

### Application data

<b>Mix water:</b>	18% clean water (from 4 to 4.5 liters per 25kg bag)
<b>Thickness:</b>	5-50 mm
<b>Performance:</b>	1,95 kg/mm/m <sup>2</sup>
<b>Application temperature:</b>	Between 5°C and 25°C
<b>Workability time:</b>	60 min
<b>Setting time:</b>	525 min (23°C)
<b>Passable:</b>	24 hours (23°C)
<b>Coating time:</b>	24 hours gluing. PVC, parquet, resins, etc.
<b>Work field:</b>	7 days Interiors only

### Final benefits

<b>Compressive strength (N/mm<sup>2</sup>):</b>	>12 (24h and 23°C)
<b>Compressive strength (N/mm<sup>2</sup>):</b>	>25 (28 days)
<b>Flexural strength (N/mm<sup>2</sup>):</b>	>6 (28 days)
<b>Wear resistance</b>	<9cm <sup>3</sup> /50cm <sup>2</sup> (class A9)
<b>Adherence</b>	>2,0 N/mm <sup>2</sup> (class B2,0)
<b>Surface hardness</b>	> 100 N/mm <sup>2</sup> (class SH100)
<b>Impact resistance</b>	> 14 N m (class IR14)
<b>Modulus of elasticity to flexion</b>	< 10 kN/mm <sup>2</sup> (class E10)
<b>Retraction</b>	< 0,1 mm/m
<b>Thermal conductivity</b>	1,18-1,30 W/mK (tabulated value)
<b>Reaction to fire</b>	Class A1

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## SAFETY AND HYGIENE INFORMATION

For any information regarding safety issues in the use, handling, storage and disposal of chemical residues, users should consult the most recent version of the Product Safety Sheet. Empty containers must be disposed of in accordance with current legal regulations.

## STORAGE CONDITIONS

The shelf life of the material is 12 months from the date of manufacture provided it is kept in a dry place and protected from the weather.

**NOTE:** The instructions for use are made according to our tests and knowledge and are not binding. They do not free the consumer from the examination and verification of the products for their correct use. The company's liability will be limited to the value of the merchandise used.

## TECHNICAL PRESCRIPTION

Leveling of interior floors, by applying a self-leveling cementitious plaster of normal hardening, resistant to heavy loads, for thicknesses of up to 40 mm (**Leveland 5-50 from Ecolanic**). The supports must be dry, solid, dust-free, sound, compact and eventually must be consolidated or primed with suitable products (such as Primer Dur or Ecopoxi Primer from Ecolanic). The material must have the following **characteristics**:

**Density of the mixture (kg / m<sup>3</sup>):** 2,250

**pH of the mixture:** ~ 12

**Passability:** 24 h

**Compressive strength (N / mm<sup>2</sup>):** 25 (at 28 days)

**Flexural strength (N / mm<sup>2</sup>):** 6.0 (at 28 days)

**Wear resistance (EN 13892-3 method):** Class A9

**Surface hardness:** SH100

**Impact resistance:** Class IR14

**Shrinkage:** <0.5mm / m

**Reaction to fire:** Class A1

**Thickness (mm):** from 5 to 50

**Consumption (kg / m<sup>2</sup>):** 1.9 (per mm of thickness)