



## POLIMIN LC-4 NIVELIR

### Self-levelling underlayment

Self-levelling underlayment for preparation of floor surfaces for installation of floor coverings

- Thickness of application: 3–15 mm;
- residential and office premises;
- floor coverings: tiles, PVC coverings, parquet (wooden flooring), linoleum;
- crack-resistant;
- for dry and wet premises.



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3-15 mm



residential and office  
premises



crack-resistant



dry and wet premises

**PACKAGING 25 kg**

### Product

**POLIMIN LC-4 NIVELIR** is a high-quality hydraulic binder-based self-levelling compound for the preparation of floor surfaces for installation of floor coverings.

Improved product formula ensures the following advantages:

- **high fluidity** for easy distribution and levelling;
- **crack resistance thanks** to special binder and reinforcing fibres composition;
- **high substrate adhesion** to prevent scaling under stress;
- **manual and machine application** for higher productivity.

### Usage

Laying a thin (3–15 mm) levelling layer on existing concrete bases or cement underlayment layers (with or without floor heating systems) for subsequent installation of linoleum, laminate, ceramic tile, carpet and other coverings in residential, public, administrative and household premises with periodic humidification (low exposure to liquids); can also be used when unevenness or height of the existing floor is not sufficient for installation of the finishing coverings.

Table 1

Characteristics	
water ratio	0.17–0.2 l per 1 kg 4.2–5.0 l per 25 kg
working time	min. 20 minutes
min./max. layer thickness	3/15 mm
curing, min.:	
- light foot traffic;	24 hours
- tile setting;	3 days
- painting, affixing floor coverings with organic glues.	7 days

Table 1 (continued)



Characteristics	
Strength, N/mm <sup>2</sup> :	
- bending (after 28 days)	≥ 4
- flexural (after 28 days)	≥ 25
substrate and ambient temperature during application	from +5°C to +30°C
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packaging	paper bags: 25 kg

Values specified in the table refer to test results obtained under the following controlled laboratory conditions: temperature of 20–22°C and humidity of 60%.

### Standards

The product complies with the requirements of EN 13813 for underlayments based on CT-C25-F4 cement. Declaration of Performance No. CPR 1/002.

Table 2

 	
fire resistance class	A1
corrosive substances emission	CT
compressive strength	≥ 25 N/mm <sup>2</sup>
bending tensile strength	≥ 4 N/mm <sup>2</sup>
water permeability, wear resistance, sound insulation, sound absorption, heat insulation, chemical resistance	NPD

### Working surface preparation

Cement substrates for the underlayment should be cured for at least 28 days, concrete substrates for at least 3 months. Compressive strength of the existing concrete substrate or cement underlayment should be at least 20 N/mm<sup>2</sup>.

Clean solid and properly cured substrate from any substances that reduce adhesion (dirt, grease, paint marks, etc.). Repair any scratches and tightly closed cracks on the surface by opening, removing dust and filling with Polimin LC-4 prepared with minimum allowable amount of water. Thoroughly remove all the dust. Prime the base with Polimin AC-7 primer 3-4 hours before grouting. Use Polimin AC-5 in case of highly absorbent substrates and Polimin AC-4 in case of smooth substrates, low absorbent substrates (concrete) or substrates with coatings that limit adhesion.

## Application

### Arranging expansion joints

Separate the area from walls, columns and other structural elements on the surface with special expansion joint profiles (damper tape) before pouring the levelling mixture. Always cut expansion joints or install expansion profiles around columns and at the room entrance/door steps. Divide premises with an area above 20 m<sup>2</sup> into sections with maximum area of 10-15 m<sup>2</sup>. Extend previously installed expansion joints to LC-4 underlayment. Fill expansion joints with a silicone sealant.

### Preparation of mixture

The prepared mixture must be used within 30-40 minutes.

### Application of the levelling underlayment

The levelling mixture is applied by pouring onto the prepared surface, followed by spreading and releasing air bubbles using a spiked roller. We recommend rolling the surface with the spiked roller in two perpendicular directions. The designated area must be filled with the levelling mixture within 20-30 minutes (workability time of the mixture). You can use a piston or auger pump to feed the mixture.

In case of breaks in handling the mixture longer than 25 minutes, wash the tools and process containers with water and remove any residual material.

### Protection of freshly laid underlayments

During application and for the first 2-3 days, the poured surface should be protected from rapid drying, direct sunlight, low humidity and draughts.

To create the best curing conditions, maintain a temperature of 15-25°C and humidity of 60-75% in room with freshly laid underlayment during the first 2-3 days.

### Operation and finishing works

Waiting time for light foot traffic is at least 24 hours, waiting time for installing finishing coats is at least 3 days for laying tiles; waiting time for painting, fixing coatings with organic adhesives is at least 7 days provided that the required moisture content of the underlayment is reached.

## Storage conditions

Store tightly closed in original bags, in a dry environment (preferably on pallets). Protect from moisture. Storage life under the specified conditions is 9 months from the labelled date of manufacture.

## Additional information

- Use of incorrect amount of water results in deterioration of strength properties of the material and increase in shrinkage deformations. Select the exact amount of water within the specified range (as shown in Table 1) in a way so as to avoid water separation on the surface of prepared mixture in the mixing container.
- Wash the tools with water immediately after use.
- The product contains cement. It is irritating to the respiratory system and skin. Causes serious eye damage. May cause an allergic skin reaction. Keep out of the reach of children. Do not inhale dust. Wear protective clothing, protective gloves, safety goggles or face shield. In case of skin (or hair) contact, immediately take off contaminated clothing and wash the skin with plenty of running water (take a shower). Seek medical advice in case of skin irritation or rash. In case of eye contact carefully rinse with water for several minutes. Remove contact lenses if worn and is easy to do so. Continue rinsing. Follow recommendations provided in the safety data sheet. The

## Special Information

The reliability of this data is based on laboratory tests and practical experience, and is relevant for the period specified in the technical specification.

The quality of the material is provided by a proprietary quality system that meets the requirements of the international standard ISO 9001.

The application, performance of work using the material shall be carried out in accordance with current regulatory documentation on the territory of the country.

The manufacturer can not incur liability for damage caused by use of the material not in accordance with the issued specifications for use or when not used for its intended purpose. With the new edition's release, this document will cease to be in force.

*The information contained in the technical card provides basic data relating to the application of the product and does not release from the obligation of performance of works in accordance with building codes and safety regulations. Since the issuance of this technical card, all previous ones have been cancelled. The current technical documentation of the product is available on drive. polimin.ua or polimin.ua in the relevant language section.*

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