



POLIMIN TP-5 WARM FLOOR

Self-levelling compound

For the preparation of the floor surface before laying floorings

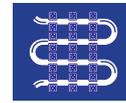
- fast-setting
- levelling layer thickness is 3–80 mm
- for floor heating systems with water and electric heating element
- residential and office premises



fast-setting



thickness of application
3-80 mm



floor heating systems



residential and office
premises

PACKAGING 20 kg

Product

POLIMIN TP-5 WARM FLOOR is a self-levelling compound based on gypsum and other high-quality hydraulic binders for the preparation of floor surfaces for the installation of floor coverings.

Due to the improved formula the product provides:

- **Fast strength setting**, process passage is 6 hours
- **High fluidity** for easy distribution and levelling;
- **Crack resistance** is obtained due to the use of a special composition of binder and reinforcing fibres
- **High substrate adhesion** – to prevent scaling under stress
- **For floor heating systems** with water and electric heating element
- **Manual and machine application** for higher productivity

Usage

Self-levelling mixture for the levelling layer (3-80 mm) applied on existing concrete bases, cement layers, the construction of the «warm floor» systems for the subsequent laying of linoleum, laminate, ceramic tile, carpet and other coatings in residential, public, administrative and domestic rooms with low intensity of exposure to liquids.

Table 1

Laying of the substrate	
types of construction	possibility of application
substrate layer conjoint with the base	+
substrate layer on the separating layer	+

Table 2

Specifications	
water required	0.16- 0.18 l / 1 kg
3.2-3.6 l / 20 kg	0,16- 0,18 л / 1 kg 3,2-3,6 л / 20 kg
consumption rate per 1 mm	1.8 kg/m ²
compound preparation	3-5 minutes
working time	max. 40 minutes
flowing time	max. 30 minutes
min/max. thickness	3 / 80 mm
of application	3/80 mm
process passage	after 6-8 hours
finishing	after 7 days
substrate and ambient temperature during application	from +5 °C to +30 °C
packaging	paper bags: 20 kg

The time specified in the table is recommended for applying the mixture at a temperature of 20-22 °C and humidity of 60%.

Standards

The product complies with the Requirements of the European standard EN 13813 for the under-layer mixture based on cement CA-C16-F5. Declaration of Consumer Properties No.CPR 1/016.

Table 3

fire resistance class	A1
corrosive substance emission	CA
compressive strength	≥ 16 N/mm ²
bending tensile strength	≥ 5 N/mm ²
waterproofing, wear resistance, soundproofing, sound absorption, thermal insulation, chemical resistance	NPD

Working surface preparation

The surface must be:

Stable strong, sufficiently supportive, resistant to deformations, seasoned, also cleared of layers that reduce adhesion; surfaces covered with fungi, mould, etc., should be treated with special compounds.

Cleaned from layers that reduce adhesion (lime, oil, grease, wax, oil and emulsion paint residues);

Dusted with industrial vacuums or manually;

Primed, Polymin AC-7 is used for the priming of standard bases, Polimin AC-5 is used for high-absorbing substrates. Use Polimin AC-4 for smooth bases, bases with low absorbency (concrete) or coated with adhesion-limiting layers.

Table 4

Detailed instructions for the preparation of bases, depending on the type of construction of the flooring	
construction of the flooring	preparation type
substrate layer is conjoint with the base («bound blinding coat») <i>thickness of layer is at least 3 mm</i>	Strong (more than 20 N/mm ²) and, accordingly, the aged base is cleaned of substances reducing adhesion (dirt, grease, traces of paint...), if there are scratches and non-opening cracks on the surface, they are additionally expanded, puttied. Dust is thoroughly cleared from the surface. Apply a contact layer Polimin AC-7 or Polimin AC-4 just before filling.
substrate layer is on the separating layer <i>thickness of layer is at least 30 mm, in the case of subsequent laying of tiles, it is at least 40 mm</i>	In the case of insufficient strength of the base (less than 16 N/mm ²), the floor levelling should be carried out on the separating layer (PE film with thickness of 0.2 mm). The layer of the separating film is laid exactly with the approach to the walls (on the insulation tapes) to the design height of the levelling layer, when joining the catches they are overlapped (at least 50 mm). The mixture is poured directly onto the film.
under-layer on sound- and heat-insulating plates («floating coat») <i>thickness of layer is at least 40 mm</i>	Insulating plates are placed closely on a flat surface in chessboard order, a separating layer of a PE film with thickness of 0.2 mm must be laid over the plates. The layer of the separating film is laid exactly with the approach to the walls (on the insulation tapes) to the design height of the levelling layer, when joining the catches they are overlapped (at least 50 mm). The mixture is poured directly onto the film.
under-layer in the underfloor heating system <i>thickness of layer is at least 40 mm</i>	The heating system is installed according to the manufacturer's recommendations. In the case of pouring onto water heating elements, the pipes must be filled with water. The thickness of the blinding coat layer should be at least 40 mm, with the layer thickness above the heating elements being at least 20 mm. The heating system of the floors is checked by an «initial warm-up». The first switching of «warm floors» is carried out no earlier than after 7 days from the day of installation. On the first three days the water in heater is delivered at a temperature of 20-25 °C, then the temperature is gradually increased every day by 3-5 °C to a maximum (55 °C for gypsum cement blinding coats) and aged for 3-5 days.

Application

Performance of Works

Before the beginning of the pouring, the under-layer must be separated from the walls, columns and other building elements located on the surface of the pouring, with special expansion profiles. In the area of the entrance doors (on the thresholds), always cut the expansion joints or lay the expansion profiles (damper tape). Premises of more than 50 m² are cut into sections of 15-20 m². The deformation seams existing in the base should be extended in the under-layer as well. The deformation seams should be filled with silicone sealants.

Preparation of mixture

The dry mixture is poured from the bag into a container with a measured amount of pure water (the proportions are indicated above in Table 2) and mixed with a low-speed mixer. The resulting mortar is allowed to stand for 3-5 minutes, and it must then be stirred again. The prepared mixture should be used within 20-30 minutes.

Application of the levelling mass

The levelling mass is applied by pouring onto the prepared surface, followed by levelling and de-aeration of the needle roller. Rolling of the roller in two perpendicular directions is recommended. The designated technological area must be filled within 20-30 minutes (the time of flexibility of the mixture).

You can apply the mortar using a piston or an auger pump.

In case of technological interruptions in the work with a mortar for more than 25 minutes, tools and process vessels should be washed with water and cleaned of residual mass.

Care for fresh blinding coat

In the process of work and the first 2-3 days, the filled surface should be protected from overly rapid drying, direct sunlight, low humidity and drafts.

In order to create favourable conditions for hardening of the under-layer, the freshly applied mortar, depending on the volume of pouring, should be covered with a film or sprinkled with clean water. For the first 2-3 days the recommended humidity is $\geq 60\%$ in the room where the blinding coat is performed.

Exploitation and finishing works

Pedestrian movement (technological passage) is permissible no earlier than in 6 hours, laying of finishing coatings is allowed no earlier than in 3 days for laying of tiles; painting, gluing of coatings with organic adhesives is allowed no earlier than in 7 days, when the required moisture of the under-layer is obtained.

Storage Conditions

Store in tightly packed original bags, in dry conditions (preferably on pallets). Protect from moisture. The period of suitability for use under conditions that meet these requirements is 9 months from the date of production indicated on the package.

Additional Information

- Using a wrong amount of water leads to a decrease in the strength features of the material and an increase in shrinkage deformations. The amount of water is selected from the specified range (indicated in Table 2) so as not to allow water separation on the surface of the prepared mixture in the tank.
- Tools are washed with water immediately after use.
- The product contains cement. It has an irritant effect on the human respiratory tracts and skin. It causes serious eye damage. It may cause an allergy in contact with skin. Keep away from children. Do not inhale dust. Use protective clothing, gloves and eye/face protection. In case of contact with the skin or hair, immediately remove contaminated clothing and wash the skin under running water (under the shower). In case of skin irritation or rash, consult a doctor. In case of contact with eyes, rinse carefully with water for several minutes. Remove contact lenses (if they used and can be easily taken off) and continue to rinse the eyes with water. Handle according to the recommendations of the safety card. The content of soluble chromium (VI) in the finished product mass is $\leq 0.0002\%$.

Special Information

The reliability of this data is based on laboratory tests and practical experience and is valid on the date that is specified in the technical specifications.

The quality of the material is provided by a brand quality system that meets the requirements of the international standard ISO 9001. Application, performance of work when using the product should be carried out in accordance with the current regulatory documentation, for example.

The manufacturer cannot be held liable for damage caused by violation of the product application rules which are indicated in the technical specification issued or when it is used for the wrong purpose.

With the release of a new edition, this document loses its 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.

06.18.2018