



PACKAGING 25 kg

POLIMIN P-21PRO THERMO FACADE ARM

Adhesive for protection of thermal insulation

To provide reinforcement of thermal insulation slabs in insulation systems of buildings and structures, and for attaching thermal insulation.

- 2-in-1 adhesive compound for the attachment of insulation material and reinforcement layering
- high substrate adhesion
- highly vapour-permeable
- microfibre-reinforced



2-in-1 adhesive compound for the attachment of insulation and reinforcement layering



high substrate adhesion



highly vapour-permeable



microfibre-reinforced

Product

POLIMIN P-21PRO THERMO FACADE ARM is produced in the form of a dry mix of cement binder, prepared fillers and specially selected modifying additives of the highest quality.

Due to the improved formula the product provides:

- **Long open time for the adhesive mixture and its resistance to displacement** ensure the gluing and correcting of the position of the insulation material for a long time (up to 20 minutes);
- **High plasticity** provides easy application on thermal insulation with a notched trowel;
- **High vapour permeability** for uninhibited movement of water vapour (important for mineral wool insulation);
- **An optimally selected recipe** makes it possible to securely fix the insulation plates made of expanded polystyrene or mineral wool;
- **The elasticity of the glue is reinforced with microfiber**, which increases the operational stability of the system, and consequently, its durability

Usage

Adhesive compound **POLIMIN P-21PRO THERMO FACADE ARM** is used for fixing thermal insulation plates made of mineral wool and EPS type styrofoam, as well as for protecting the thermal insulation (the reinforcing layer) in insulation systems of buildings and structures.

Types of bases: concretes of all categories, aerated concrete, cement and cement-lime plasters, unplastered walls of hollow and full bricks, sandstone, ceramic blocks.

Table 1

| Specifications | |
|--|--------------------------------------|
| water required | 0.2–0.22 l / 1 kg 5–5.5 l / 25 kg |
| compound preparation | 3-5 minutes |
| working time | min. 3 hours |
| open time | min. 20 minutes |
| adjustability | min. 10 minutes |
| min./max. thickness of application | 2/8 mm |
| rawplug insertion | min. 24 hours |
| substrate and ambient temperature during application | from +5 °C to +30 °C |
| packaging | paper bags: 25 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

ETAG 004-compliant.

Declaration of Consumer Properties No.CPR 1/017.

Table 2

| | |
|---|--------------------------|
| | |
| fire resistance class | A1 |
| initial substrate adhesion strength (concrete) | ≥ 0,25 N/mm ² |
| strength of adhesion with a thermal insulation material (mineral wool, EPS (TR 100)) of 50 mm thickness | ≥ 0,08 N/mm ² |

Application

Substrate preparation

The surface must be:

Stable: strong, sufficiently supportive, resistant to deformations, seasoned, also be cleared from layers that reduce adhesion;

Even: taking into account the maximum layer thickness of adhesive plaster is 10 mm, – if necessary, the base is levelled with flooring in the case of horizontal surfaces and with plasters in the case of vertical surfaces;

Cleaned of layers that reduce adhesion (lime, oil, grease, wax, oil and emulsion paint residues). The surfaces covered with fungi, mould, etc., are to be treated with special compounds;

Dusted with industrial vacuums or manually;

Primed for further strengthening the base and prolonging the time of treatment of the adhesive plaster. Polymin AC-7 is used for 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, gypsum substrates.

Mounting of socle profiles

Installation of the thermal insulation system begins with the attachment of light socle profiles made of stainless steel along the perimeter of the building. The mounting of the profile must be carried out with high accuracy. It is mounted at 30-40 cm below the ceiling of the underground room. The width of the profile shelves should correspond to the thickness of the insulation material used.

Preparation of gluing plaster

The dry mixture is poured from the bag into a container with a measured amount of pure water (the proportions are indicated above in the Technical Data) and mixed with a drill with a stirrer until a homogeneous consistency is obtained. The resulting adhesive is allowed to stand for 3-5 minutes, and then it must be stirred again. The mortar mixture could be used for 3 hours.

Gluing of thermal insulation plates

The thermal insulation made of mineral wool is glued only to a continuous adhesive layer applied by a notched trowel (the size of teeth is at least 10x10 mm).

EPS boards can be attached in various ways: with base unevenness up to 10 mm, the adhesive solution is applied with a strip along the whole perimeter of the plate (width of the strip is at least 3 cm) and additional spots of 8-12 cm in diameter (5-8 pieces); with base unevenness up to 5 mm, gluing is performed on the adhesive layer applied with a notched trowel over the entire area of the plate (the size of the spatula teeth is 10x10 or 12x12 mm).

Qualitative gluing of the thermal insulation is ensured if, during the test separation of one plate, after its installation in the design position, the contact adhesive layer is covering at least 60% of the surface of the plate.

Application of the reinforcing layer

The reinforcing layer is applied to clean insulation plates. If the insulation plates have been polished after gluing, they must be vacuumed.

The reinforcing layer can be applied not earlier than 3 days after gluing of the insulation is completed. In 24-48 hours after gluing, mechanical fixing of the insulation is performed with the help of "umbrella" dowels.

Apply glutinous mortar on the surface of the thermal insulation and distribute it with a grater. Reinforcing alkali-resistant mesh should be applied onto the fresh mortar and immediately puttied so that the mesh cells are not visible through the mortar. The thickness of the glutinous reinforcing layer should be at least 5 mm.

Consumption Rate

The material consumption depends on the smoothness and absorbency of the substrate, as well as on the gluing technology used.

On average, material consumption is:

for gluing: 4-6 kg/m²;

for reinforcing layer: 4-5 kg/m².

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 12 months from the date of production indicated on the packaging.

Additional Information

During the work, it is mandatory to use protective nets on the scaffolds. It is forbidden to work during precipitation, in strong winds or in direct sunlight. During the work, it is mandatory to use protective nets on the scaffolds. Do not work during snow and rain, and in strong winds.

- The tools are washed with water immediately after use.
- The product contains cement. It has an irritant effect on the human respiratory ways and skin. It causes serious eye damage. It may cause 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 are and they can easily be pulled out) and continue to rinse the eyes with water. Act according to the recommendations on 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 day that is specified in

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

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

The manufacturer cannot be responsible for damage caused by the violation of the product application rules which are indicated in the issued technical specification 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 to perform work 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.

07.31.2018