



PACKAGING 25 kg

POLIMIN P-20 TERMO FACADE ARM

Adhesive for insulation systems

For protection of thermal insulation materials within insulation systems of buildings and structures and for fixing insulation boards.

- 2-in-1 adhesive compound for fixing insulation boards and reinforcement layering;
- high substrate adhesion;
- microfiber-reinforced;
- highly vapour-permeable.

WHITE GRAY



2-in-1 adhesive compound for fastening the insulation and performing the reinforcement layer



high substrate adhesion



Microfiber-reinforced



Plasticity

Product

POLIMIN P-20 THERMO FACADE ARM adhesive compound for fixing and protection of thermal insulation boards within insulation systems of buildings and structures and fixing decorative elements.

Improved product formulation ensures the following advantages:

- **Forming decorative (textured) coating for painting** thanks to white colour of the coating.
- **Long open time of the adhesive mixture and resistance to displacement** for fixing and adjustment of insulation position within a prolonged period (up to 20 minutes).
- **High plasticity** eases application on thermal insulation with a notched trowel.
- **Optimal formula** allows for secure fixing of insulation plates both from expanded polystyrene and mineral wool.
- **Microfiber reinforcement improves elastic properties** to increase service durability of the system.

Usage

POLIMIN P-20 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

Characteristics	
water ratio	0.2–0.22 l per 1 kg 5–5.5 l per 25 kg

Table 1 (continued)

Characteristics	
mixed curing time	3–5 minutes
working time	min. 3 hours
open time	min. 20 minutes
adjusting time	min. 10 minutes
min./max. thickness of application	2/8 mm
attachment by dowels	min. 24 hours
substrate and ambient temperature during application	+5 °C to +30 °C
packaging	paper bags: 25 kg

The recommended time values specified in the table are based on application temperature of 20–22°C and humidity of 60%.

Standards

Table 2

The product complies with the requirements of EN 12004. Declaration of Performance No. CPR 1/006.

fire resistance class	A1
initial substrate adhesion strength (concrete)	≥ 0.25 N/mm ²
adhesion strength (50 mm-thick EPS insulation (TR 100) and mineral wool)	≥ 0.08 N/mm ²

Application

Working surface preparation

The surface should be:

Stable — dry, solid, with sufficient load-bearing capacity, resistant to deformations; attaching of insulation to a frozen substrate is not allowed.

Flat — to observe the maximum adhesive layer thickness of 8 mm, level the substrate by applying plaster materials.

Cleaned of layers that reduce adhesion (lime, oil, fat, wax, oil-based and emulsion paints). Pre-treat substrates contaminated with fungi, mould, etc. using special products.

Dusted with industrial vacuum cleaners or manually.

Primed with Polimin AC-5 (AC-7) for additional strengthening of the substrate surface and prolonging the time of treatment of the adhesive solution.

Preparation of the mixture

Installation of the insulation system begins with fastening of lightweight starter track profiles of stainless steel around the entire perimeter of building. The starter profile should be precisely aligned and levelled. It is mounted 30-40 cm below the level of the sub-basement floor slab. The profile width should match the thickness of the insulation material used.

Preparation of the adhesive

Empty the dry mix from a bag into a container with an accurately metered amount of clean water (please refer to water ratio in Table 1 above) and mix with a low speed mixer to obtain uniform consistency. Allow to stand for 5 minutes and then remix. The ready adhesive should be used within approximately 3 hours.

Fixing insulation boards

EPS (expanded polystyrene) boards may be fixed using different methods: in case of substrate irregularities of up to 10 mm deep, apply adhesive along the entire board perimeter (with application width of at least 3 cm) and 5-8 additional spots with diameter of 8-12 cm; in case of substrate irregularities up to 5 mm deep, fix the board by applying adhesive with a notched trowel over the entire area of the board (trowel tooth size of 10x10 or 12x12 mm). Mineral wool insulation is fixed by applying adhesive layer over the entire area with a notched trowel (with min. tooth size of 10x10 mm). Reliable fixing of the insulation material is ensured if during tear-off test for one insulation board, installed in the design position, the contact area of the adhesive layer is at least 60% of the board surface.

Applying reinforcement layer

The reinforcement layer is applied over clean insulation boards. If the insulation boards were sanded after fixing, clean with a vacuum cleaner.

Apply the reinforcement layer not earlier than 3 days after fixing the insulation. Mechanically attach the insulation using umbrella-shaped dowels 24-48 hours after fixing.

Apply the adhesive and distribute it over the surface with a trowel. Press alkali-resistant reinforcing mesh into fresh adhesive and immediately put putty to completely cover the mesh cells. The thickness of the adhesive reinforcing layer should be at least 5 mm.

Consumption rate

The material rate of consumption depends on the flatness and absorbency of the substrate, as well as on the fixing technology used.

Average rate of consumption of product:

fixing: 4-6 kg/m²;

installing reinforcing layer: 4-5 kg/m² per 1 mm of layer

Storage Conditions

Store tightly closed in the original bags, in a dry environment (preferably on pallets). Protect from moisture. Storage life under the specified conditions is 12 months from the date of manufacture stated on label.

Additional Information

Always use safety nets when working on scaffolds. Carrying out work in rain (precipitation), strong wind or under direct sunlight it is forbidden to perform the.

- Wash the tools with water immediately after use.
- The product contains cement. It is irritating to the respiratory system and skin and 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 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 easy to do so. Continue rinsing. Follow recommendations provided in the safety data sheet. The content of soluble chromium (VI) in the finished product is ≤ 0.0002%.

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 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.

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