

STIROKOL-P

Adhesive for fixing and skim coating polystyrene sheets, expanded polystyrene, extruded polystyrene, pressed mineral or rock wool panels

Field of application:

For fixing thermal insulation boards made of expanded polystyrene, extruded polystyrene, pressed mineral or rock wool, as well as for skim coating surfaces when constructing thermal insulation facades.

Properties:

- Grey powder;
- Excellent adhesion;
- Waterproof;
- Excellent compressive strength;
- Excellent bend strength;
- Elastic;
- Easy to prepare and apply;
- Economical;
- Eco-friendly.

Technical features:

Property	Declared value
Appearance	grey powder
W/M ratio (water-to-material ratio)	0.22-0.26
Adhesion to substrate after 28 days from application	>0,5 MPa
Compressive strength	after 3 days: >4MPa after 28 days: >10MPa
Bend strength	after 3 days: >2MPa after 28 days: >3MPa
Open time at temperature of 20°C	30 minutes
Initial setting time at 20°C and relative humidity of 65%	12 hours
Final setting time at 20°C and relative humidity of 65%	16 hours

Method of application:

Substrate Preparation:

The substrate should be sound, strong, clean, grease-free, dust-free and without any unstable parts, salts or mould. Stirokol P may be applied onto a substrate made of concrete, ceramic block masonry structures, light-weight concrete blocks, stone or mortar rendered surfaces. In old mortar surfaces, it is necessary to test the strength and adhesion of the entire surface, and any unstable or crumbly parts should be removed in order to obtain a sound substrate. If it is necessary to repair these parts, we recommend using Reparatur malter F1. Existing coatings are not appropriate as a substrate for application of Stirokol P. Therefore, it is necessary to remove these coatings completely by scraping them off and only then to apply the material. Surfaces having mould and lichen should be cleaned. Substrate temperature should range between +5°C and +35°C. Stirokol P should not be applied if there is rain or strong wind.

Application:

Stirokol P should be prepared by adding water and mixing them together until a completely uniform mixture is obtained. After mixing the compound, it should be allowed to stay still for 10 – 15 minutes and then it should be stirred again. Application should be carried out by using a trowel or a scraper. Stirokol-P can be applied by dotting or by spreading the adhesive over the surface. Application by dotting means to apply a thicker layer of adhesive along the frame of the block and three dots in the middle area of the insulation block. Surface application means spreading Stirokol-P over the entire surface by using a notched trowel with notch size of 15 mm. If the surface on top of which the thermal insulation is applied has uneven parts, increased material consumption should be expected for fixing the thermal insulation boards. When installing the thermal insulation, the boards should be levelled and compacted to one another in order to avoid the formation of open joints (thermal bridges). The installation of the boards should be in line with the principle of bricklaying to avoid any possibility for the joints to overlap whether horizontally or vertically. Two layers of skim coat should be applied onto the thermal insulation blocks and an alkali-free grid should be inserted between them. The first layer of Stirokol-P should be applied in a layer measuring 1.5-2.0 mm in thickness by using a steel trowel. The alkali-free grid should be embedded in the freshly applied layer by using a metal trowel. Once the first layer has cured, a second layer of Stirokol-P should be applied (16 hours after the application at 20°C) with the same thickness as the first layer. In thermal insulation facades, the finishing is applied once the layer of Stirokol-P has completely cured. Treated surfaces should be protected against sunlight, strong draught, rain and dust within a period of 24 hours following the application. The surfaces should be protected with curtains.

Consumption:

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|-----------------------------------|-----------------------------|
| - For adhesion | 4.0 – 6.0 kg/m ² |
| - For skim coating (for 2 layers) | 3.0 – 4.5 kg/m ² |

Cleaning:

The tools and equipment should be cleaned with water immediately after use.

Packaging:

In valve bags of 25 kg

Storage:

In a dry area, in original, closed packaging, at temperature between 5°C and 35°C.
Shelf life: 12 months.

Health hazards: Avoid contact of the product with the skin and eyes, and avoid direct inhalation of the powdery component. In case of accidental skin contact, remove it immediately with water and soap. If the material splashes into the eyes, rinse them immediately with plenty of water and seek medical assistance.

If swallowed, seek medical advice.

Fire: Stirokol-P is a non-flammable powder.

Cleaning and disposal: Clean with water. The old and used packaging should be disposed of in accordance with the local rules and regulations for that type of waste.

We recommend that the method of application and the necessary quantities should be adjusted to the conditions of the building, as well as mandatory use of appropriate equipment.