

# STIROKOL P

*Adhesive for fixing and skimming coating of expanded polystyrene (foam) sheets, extruded polystyrene sheets, compressed mineral or stone wool*

## FIELD OF APPLICATION

For fixing thermal insulation blocks made of expanded polystyrene (foam) sheets, extruded polystyrene sheets, compressed mineral or stone wool, as well as for skimming surfaces in installation of thermal insulation façades.

## PROPERTIES

- Excellent adhesion;
- Waterproof;
- Excellent strength under pressure;
- Excellent flexural strength;
- Elastic;
- Easy to prepare and use;
- Economical.

## TECHNICAL FEATURES

| PROPERTY  | METHOD | DECLARED VALUE                                 |
|---|--------|--|
| Appearance  | -      | Grey powder                                    |
| W/M factor (water/ material)                            | -      | 0.22-0.24                                      |
| Substrate adhesion 28 days after application            | -      | ≥ 1MPa   |
| Strength under pressure                                 | -      | 3 days later: > 4MPa<br>28 days later: > 10MPa |
| Flexural Strength                                       | -      | 3 days later: > 2MPa<br>28 days later: > 3MPa  |
| Open time for application at +20°C                      | -      | 30 min   |
| Initial setting time at +20°C and relative humidity 65% | -      | 12h  |
| Final setting time at +20°C and relative humidity 65%   | -      | 16h  |

## METHOD OF APPLICATION:

### SUBSTRATE PREPARATION

The substrate should be sound, clean, grease-free and dust-free, without unstable areas, salts and mould. It can be applied on substrate made of concrete, ceramic blocks masonry structures, light-weight concrete blocks, stone or mortar rendered surfaces. In case of surfaces covered with old mortar, it is necessary to test strength and adhesion of the entire surface and to remove all loose, unstable and crumbly parts in order to obtain sound substrate. If reconstruction of the openings is performed, we recommend using the product Reparatur malter F1. The existing coatings are not appropriate substrate for application of the product Stirokol P. Therefore, it is necessary to remove these coatings completely by scraping them off, and then continue with the application of the product. Also, the areas covered with mould, lichens, etc. should be cleaned first. Substrate temperature should range between +5 and +35°C. Stirokol P should not be applied during rain or drought.

## APPLICATION

Prepare Stirokol P by adding water and mix constantly until a completely homogenous mixture is obtained. Leave the mixture to stay still for 10-15 min, and stir it again. Apply the material using a trowel, scraper tool or a spatula. Stirokol P can be applied by dotting or by spreading the adhesive over the surface. Application by dotting means applying a thicker layer of the product along the frame of the block and three dots in the middle area of the insulation block. Spreading, i.e. surface application means spreading the product Stirokol P over the entire surface of the block by using a notched trowel, notch size being 15 mm. In case the surfaces on top of which the thermal insulation is applied have uneven spots, increased material consumption should be expected for fixing the thermal insulation blocks. When installing thermal insulation blocks, it is necessary that the blocks are levelled and compacted one to another in order to reduce and avoid formation of open joints (thermal bridges). The installation of the blocks should be performed by applying the bricklaying method, which enables to avoid any possibility for the joints to overlap, whether horizontally or vertically.

The installation of the fixed thermal insulation blocks is performed in two layers by inserting alkali-free mesh between the layers. The first layer of the product Stirokol P is applied using steel trowel, the layer being thick from 1.5 to 2.0 mm. While it is still freshly applied, use a metal trowel to press the alkali-free mesh over it. Once the first layer is cured, the second layer of Stirokol P is applied (~16h after the application at 20°C), and the second layer should be as thick as the previous. In thermal insulation façades, the finishing of the façade application is performed on a completely cured layer of Stirokol P.

Protect the treated surfaces from sunlight, strong drought, rain and dust within a period of 24h following the application. Protect the treated surfaces with curtains.

## CONSUMPTION

For adhesion – 4.6 – 6.0 kg/m<sup>2</sup>

For skimming – 3.0 – 4.5 kg/m<sup>2</sup>

## CLEANING

The tools and equipment are cleaned with water, immediately after use.

## PACKAGING

In valve bags of 25 kg

## STORAGE

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

**Health hazards:** Avoid contact of the product with skin and eyes, and avoid direct inhalation of the powdery component. When in contact with skin, rinse it immediately with clean running water and soap. When in contact with eyes, rinse them immediately with plenty of water and seek medical assistance. If swallowed, seek medical assistance.

**Fire:** This is a non-flammable product.

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

We recommend that the methods of application and necessary quantities are adjusted to the conditions of the building, as well as use of appropriate equipment.