

## PRODUCT DATA SHEET

# SikaWall®-1045 Pro

Adhesive and leveling mortar for bonding and leveling of expanded polystyrene, extruded polystyrene and mineral wool insulation boards.

## DESCRIPTION

SikaWall®-1045 Pro is a 1-component high-strength, cementitious adhesive mortar, with selected aggregates and special additives. Suitable for bonding and for rendering of thermal insulation boards with grid embedding. The adhesive layer has deformability properties and can be applied in thickness up to 20 mm.

## USES

- Suitable as part of External Thermal Insulation Composite Systems (ETICS)
- Bonding of expanded polystyrene insulation boards, including graphite expanded polystyrene insulation boards
- Bonding of extruded polystyrene insulation boards
- Bonding of mineral wool insulation boards
- Suitable for bonding and for mesh embedding
- For internal and external applications

## FEATURES

- Fine-textured, crack-free surfaces
- Very good adhesion on thermal insulation boards (EPS, XPS, MW)
- Low Water absorption and high vapour permeability
- Freeze-thaw resistant, flexible and shock resistant
- Can be applied in thicknesses up to 20 mm

## CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance according to EN 998-1:2016 - General purpose rendering / plastering mortar for external and internal use
- SikaWall®-1045 Pro Technical Agreement 016-04/2471-2024

## PRODUCT INFORMATION

Composition	Portland cement, selected aggregates, special additives and fillers
Packaging	25 kg bags. Pallet of 48 bags.
Appearance and colour	Grey powder
Shelf life	12 months from date of production (written on the side of the bag).
Storage conditions	The product must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight.
Maximum grain size	1 mm
Bulk density	1,4 kg/lt

## TECHNICAL INFORMATION

<b>Tensile adhesion strength</b>	Adhesion to substrate/concrete $\geq 0,5 \text{ N/mm}^2$ Tensile strength to substrate of expanded polystyrene, at 28 days $\geq 0,08 \text{ N/mm}^2$ Tensile strength to substrate of extruded polystyrene, at 28 days $\geq 0,08 \text{ N/mm}^2$ Tensile strength to substrate of mineral wool, at 28 days $> 0.06 \text{ N/mm}^2$ or break in substrate	
<b>Reaction to fire</b>	A1	(EN 13501-1)
<b>Permeability to water vapour</b>	$< 15$	(EN 1015-19)
<b>Water absorption</b>	W2	(EN 1015-18)

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Approx. 5 – 6 lt water per 25 kg powder
<b>Consumption</b>	Consumption depends on the nature of the substrate and the bonding method. <ul style="list-style-type: none"><li>▪ Full-surface bonding trowel 10 mm: <math>5 \text{ kg/m}^2</math></li><li>▪ Spot bonding (trowel): <math>6 \text{ kg/m}^2</math></li><li>▪ Protective layer trowel 8 mm: <math>4 \text{ kg/m}^2</math></li></ul>
<b>Ambient air temperature</b>	Min. $+5 \text{ }^\circ\text{C}$ / Max. $+35 \text{ }^\circ\text{C}$
<b>Maturing time</b>	Additional fixing with fastening dowels - min 24 hours Decorative plaster finish - min 7 days
<b>Pot Life</b>	3 hours
<b>Waiting time to overcoating</b>	Drying time before further finishing is minimum 7 days.
<b>Setting time</b>	10 minutes
<b>Fresh mortar density</b>	$1,4 \text{ kg/lt}$

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

The substrate must be sound, dry, free from loose and friable materials, low adhesion coatings and any other substances that might affect the adhesion of SikaWall®-1045 Pro. Unevenness can be compensated with adhesive up to  $2,0 \text{ cm/layer}$ . In case of large deviations in flatness or verticality, it is recommended to plaster the surface.

### MIXING

A 25 kg bag should be mixed approx. 5 – 6 litres of cold, clean water in a bucket with an electric mixer on low speed until the water and material is a soft, lump-free paste.

Use a mixer with max. 500 rpm, after mixing leave the product to stand for 10 minutes, then remix to obtain a mortar with a workability and high thixotropic properties.

### APPLICATION

#### As a bonding mortar

In the case of flat surfaces, the adhesive will be applied to the intrados of the boards with a 10 mm trowel. For uneven surfaces, the adhesive shall be applied with a trowel around the perimeter of the boards and at least 3 spots in the center.

The boards shall be applied in a flat position starting from the bottom to the top, staggered in a brick arrangement.

- On no account may adhesive mortar penetrate into the joints between the insulation boards
- Additional fastening with anchors will be carried out after a minimum of 24 hours, according to the application schedule of the project

### As a rendering mortar

Apply the adhesive to the surface of the insulation board using an 8 mm notched trowel. Embed the fiberglass mesh into the freshly applied adhesive by leveling it with the smooth side of the trowel. Place the fiberglass mesh with an overlap of 8 – 10 cm. After the mortar has dried (at least 24 hours) smooth the surface.

- The thickness of the reinforcing layer should be at least 3 – 4 mm. If the protective layer does not reach this thickness or does not cover the fiberglass mesh, apply an additional layer of adhesive over the existing one
- It is advisable to avoid working in unfavorable climatic conditions, such as direct sunlight, wind, frost, and similar factors. If necessary, take appropriate measures to protect the surface.
- It is not recommended to apply rigid mortars or plasters on top

### CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

### DISPENSING

Scrap material and empty packaging shall be recycled in accordance with local regulations in force. For more information, see the latest version of the Safety Data Sheet.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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#### Product Data Sheet

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