

PRODUCT DATA SHEET

SikaWall®-1010 Fix SA

CEMENTITIOUS MORTAR FOR EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS (ETICS)

DESCRIPTION

SikaWall®-1010 Fix SA is a premixed product containing cement and fillers of selected grading, as well as appropriate amount of polymers and special additives. After mixing with water, this mixture becomes a very workable mortar, which ensures good adhesion of thermal insulation boards. Suitable for use in hot and tropical climatic conditions.

USES

SikaWall®-1010 Fix SA is a cement mortar powder designed specifically for bonding polystyrene thermal insulation boards to various substrates:

- cement mortar
- cement-lime mortar
- concrete
- concrete blocks
- brick, hollow brick, etc.

PRODUCT INFORMATION

CSI / CSC MasterFormat®	CSI SECTION 07 24 00 – Insulation & Finish System (EIFS)
Composition	Portland cement, selected fillers, special additives
Packaging	25, 50 kg bags
Appearance / Colour	Grey Powder
Shelf life	12 months minimum from date of production
Storage conditions	Store in original unopened packaging in cool and dry condition between 5°C and 35 °C. Protect from direct sunlight, heat and moisture.
Maximum grain size	~0.5 mm

TECHNICAL INFORMATION

Compressive strength	~13 N/mm ²	(EN 1015-11)
Tensile strength in flexure	~4.6 N/mm ²	(EN 1015-11)

CHARACTERISTICS / ADVANTAGES

SikaWall®-1010 Fix SA enables bonding of polystyrene insulation boards as a result of highly efficient synthetic resins. It has excellent adhesion to cement materials and polystyrene boards and excellent workability.

APPROVALS / CERTIFICATES

Approved by Saudi Standards, Metrology and Quality Organization (SASO) for use in external thermal insulation system, test method ISO 8990-Determination of steady-state thermal transmission properties Calibrated and guarded hot box

Tensile adhesion strength	Concrete	≥0.90 N/mm ²	(EN 1015-12)
	Polystyrene (EPS)	≥0.18 N/mm ²	
	Polystyrene (XPS)	≥0.20 N/mm ²	
Water penetration after capillary absorption	≤ 0.2 kg/(m ² min ^{0.5}) (category W2)		(EN 1015-18)

APPLICATION INFORMATION

Mixing ratio	~5.9 L for each 25 kg bag, ~11.75 L for each 50 kg bag
Fresh mortar density	~1.8 kg/l (25 °C)
Consumption	~1.8 kg/m ² /mm This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc..
Layer thickness	2 mm min. / 5 mm max.
Ambient air temperature	+5 °C min. / +35 °C max.
Substrate temperature	+5 °C min. / +35 °C max.
Pot Life	~45 min. (23 °C)

BASIS OF PRODUCT DATA

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

FURTHER INFORMATION

- European guideline for the application of ETICS
- ETAG 004

IMPORTANT CONSIDERATIONS

Project specific facade design and calculation should be done by a qualified consultancy. During installation of SikaWall®-1010 Fix SA, the following must be considered:

- Minimum coverage of the board with the material should be 50%.
 - Place the polystyrene boards in a staggered way.
- SikaWall®-1010 Fix SA cannot be used for bonding of thermal insulation panels on:
- Metal and highly flexible substrates.
 - Impervious and continuous surface film.
 - Weak substrate (in this case fix the panel mechanically).

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate must be compact, strong, free of loose particles and appropriately matured. Any damaged or irregular parts of concrete surfaces should be filled with suitable repair products (Sikagrout®, Sikacrete®, SikaRep®). Substrate must also be free from separating layers such as bitumen, grease and oil, old paint and coating.

MIXING

Mix SikaWall®-1010 Fix SA with appropriate quantity of water with a low speed electric drill mixer until a homogenous, lump-free paste is achieved. Leave for about 5 minutes and stir briefly before use.

APPLICATION

As a bonding mortar

Apply the product on the whole backside of the thermal insulation board using a No 8 or 10 notched trowel. Otherwise, you can apply on the perimeter of the panel and on spot at the center using a trowel. For large size thermal insulation boards, full surface bonding is required. Afterwards apply them on the substrate, exerting pressure and making sure they are aligned.

As a rendering mortar

Apply using a notched trowel. Apply the embedding grid (eg. Sikatherm®-EPS) while SikaWall®-1010 Fix SA it still fresh and smooth using a straight spatula, embedding the mesh fully and creating a smooth final surface. In order to avoid cracks between the rolls of the mesh, ensure an overlapping of minimum 10 cm. Apply the product in one or two layers.

CLEANING OF EQUIPMENT

Clean equipment and mixer immediately after applica-

tion with water. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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