

PRODUCT DATA SHEET

SikaWall®-1030 Uni SA

CEMENTITIOUS MORTAR FOR EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS (ETICS)

DESCRIPTION

SikaWall®-1030 Uni SA is a dry-mixed, cementitious product containing sand of selected grading, as well as polymers and special additives. After mixing with water, it becomes a smooth mortar, which ensures good adhesion of thermal insulation boards, as well as easy and good quality of reinforcement embedment. Suitable for use in hot and tropical climatic conditions.

USES

SikaWall®-1030 Uni SA is a cement mortar powder designed specifically for bonding of insulating boards of polystyrene or mineral wool and is also designed for reinforcing and smoothing over thermal insulation boards, which results in an excellent substrate for application of finishing, decorative and façade mortars. Thermal insulation boards can be bonded to various substrates:

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

CHARACTERISTICS / ADVANTAGES

- Good adhesion
- Excellent workability and finish
- High strength

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

PRODUCT INFORMATION

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.
Density	~1.6 kg/l (25 °C)

TECHNICAL INFORMATION

Compressive strength	≥ 10 N/mm ² (25°C / 28 days)	(EN 1015-11)
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Tensile strength in flexure	≥ 3.5 (25°C / 28 days)	(EN 1015-11)
Tensile adhesion strength	Concrete	≥ 1 N/mm ²
	Polystyrene (EPS)	≥ 0.2
	Polystyrene (XPS)	≥ 0.2
Water penetration after capillary absorption	≤ 0.2 kg/m ² x min ^{0.5}	(EN 1015-18)

SYSTEM INFORMATION

System structure	SikaWall®-1030 Uni SA forms a part of Sika external thermal insulation system SikaTherm®, which comprises of the following products:	
	SikaWall®-1010 FIX SA	Cementitious mortar for bonding and rendering
	Thermal insulation boards	Thermal insulation boards EPS, XPS, Mineral Wool, Cork, etc.
	SikaWall® -9100 SA	Alkali resistant glass fiber mesh for strengthening the rendering of thermal insulation boards
	SikaWall® -1030 UNI SA	Cementitious mortar for rendering thermal insulation boards
	SikaWall®-610 Primer SA	Acrylic Water dispersed primer for renders
	SikaWall®-610 F SA	Acrylic based, paste-like profile finish coating
	SikaWall®444 SA	Acrylic based decorative coat
	Sikatherm® -900 SA	Plastic expandable fixation anchor for external thermal insulation composite systems

APPLICATION INFORMATION

Mixing ratio	6.25 liter clean water for each 25 kg bag
Consumption	~4.8 to 8 kg/m ² 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	10 mm maximum
Ambient air temperature	+5°C min. / +30°C max.
Substrate temperature	+5°C min. / +30°C max.
Pot Life	~1 hour (+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

The following must be considered during installation

of SikaWall®-1030 Uni SA:

- Minimum coverage of the board with the material should be 50%.
 - Place the thermal insulation boards in a staggered way.
 - On corners of openings, additional, perpendicular reinforcement must be done, since cracking on facades usually occurs at corners.
 - Users must follow strictly ETAG 004 "guideline for European technical approval of external thermal insulation composite systems with rendering"
- SikaWall®-1030 Uni SA cannot be used for bonding of thermal insulation boards:
- on metal and highly flexible substrates
 - on substrates with high unevenness

- on weak substrates (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

The substrate must be sound, dry, free from loose and friable materials, low adhesion coatings and any other substances that might impair the adhesion of Sika SikaWall®-1030 Uni SA.

Concrete

The substrate must be mature (at least 28 days old) and must be prepared by suitable mechanical methods, such as high pressure water blasting or sandblasting. Repairs to the substrate and filling of blowholes/voids must be carried out using appropriate products from the SikaRep® / Sika MonoTop® range of materials. Prior to the application, wet the substrate up to saturation. Remove any standing water, in order to achieve an SSD surface until the application of SikaWall®-1030 Uni SA.

Masonry

The substrate must be prepared mechanically in order to remove friable parts or remnants of old renderings. Afterwards, the substrate must be cleaned by brushing or by high pressure water blasting (200-400 bar) and all repairs, blowholes, voids must be repaired using suitable repair mortars (SikaRep® / Sika MonoTop® range of materials). Pre wet the substrate up to saturation.

Renderings / Coatings

The substrate must be sound, free from dust, dirt, friable parts, grease, efflorescence, e.t.c. Old existing layers must be checked in order to verify their adhesion to the substrate and must be completely removed if they are considered as unsuitable substrate. Additional mechanical fixing of the insulation board must be considered if needed. In all cases, rising moisture phenomena must be treated and damp areas must dry before the application of the mortar. SikaWall®-1030 Uni SA is applied directly on concrete, masonry, renders (organic or cementitious) or coated substrates. Under normal conditions, no primer is needed. In case of extremely absorbent or demanding substrates apply a primer depending on the type of the substrate (e.g. Sikaceram®-11 W SA).

For additional support, please contact our Technical Department.

MIXING

Mix SikaWall®-1030 Uni 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, add pressure and making sure they are aligned.

As a rendering mortar

Apply using a notched trowel. Apply the embedding grid (eg. SikaWall®-9100) while SikaWall®-1030 Uni 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 $\geq 10\text{cm}$. Apply the product in one or two layers.

CLEANING OF EQUIPMENT

Clean equipment and mixer immediately after application 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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ISO 9001: Sika UAE LLC,
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Sika Saudi Arabia Co. Ltd,
Sika Qatar LLC
ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
Sika Gulf B.S.C. (c)

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.

Product Data Sheet

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