

PRODUCT DATA SHEET

SikaWall®-1030 Easy

Cementitious mortar for External Thermal Insulation Systems (ETICS), based on SikaWall® Easy technology

DESCRIPTION

SikaWall®-1030 Easy is a 1-component, fiber reinforced cementitious mortar, suitable for bonding and for rendering of thermal insulation boards with grid embedding. SikaWall®-1030 Easy is based on SikaWall® Easy technology, which secures optimal application comfort and efficiency.

USES

- Designed for use as bonding and rendering mortar of the External Thermal Insulation Composite System **Sikatherm® Essential Easy**
- Bonding and rendering of thermal insulation boards, on vertical walls or ceilings
- Suitable for use as general purpose masonry mortar, according to EN 998-1, for renderings in internal and external applications
- Suitable for use as a rendering mortar with mesh embedding (SikaWall®- 9160 Mesh GR)
- Suitable for renovation works

FEATURES

- Easy to apply and to embed the reinforcing mesh
- Good filling properties
- Reliable and secure adhesion on usual construction substrates, such as bricks, concrete, plaster, e.t.c.
- Very good adhesion on thermal insulation boards
- Excellent workability and thixotropy
- Water vapor permeable
- Non-combustible - Reaction to fire class: A1
- Classified according to EN 998-1 (GP)

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance according to EN 998-1 - General purpose rendering / plastering mortar for external and internal use

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates, special additives and fibers	
Packaging	25 kg bags	
Appearance and colour	Powder, white	
Shelf life	12 months from date of production	
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.	
Density	~1.39 kg/l (bulk density)	(EN 1015-10)
Maximum grain size	Dmax = 0.7 mm	

TECHNICAL INFORMATION

Compressive strength	7 days	28 days	(EN 1015-11)
	≥5 N/mm ²	≥10 N/mm ² (Class CS IV acc. to EN 998-1)	
Tensile strength	7 days	28 days	(EN 1015-11)
	≥2 N/mm ²	≥4 N/mm ²	
Tensile adhesion strength	Concrete	≥1.0 N/mm ² (FP: B)	(EN 1015-12)
	Polysterene (EPS)	≥0.15 N/mm ² (FP: C)	
	Polystyrene (XPS)	≥0.20 N/mm ² (FP: A)	
Reaction to fire	A1		((EU) 2017/1228)
Permeability to water vapour	μ ≤ 25		(EN 1015-19)
Thermal conductivity	(λ _{10,dry}) 0.51 W/m·K (tab. mean value, P= 50 %)		(EN 1745)
Water absorption	Wc 1		

APPLICATION INFORMATION

Mixing ratio	As a bonding mortar: 5.5 – 6.0 lt per 25 kg bag As a rendering mortar: 5.7 – 6.2 lt per 25 kg bag
Ambient air temperature	Min. +5 °C / Max. +35 °C
Substrate temperature	Min. +5 °C / Max. +35 °C
Pot Life	~3 – 4 hours at +20 °C
Waiting time to overcoating	When used as a rendering mortar Minimum waiting time before overcoating: 2 – 3 days (depending on the prevailing environmental conditions)

SYSTEM INFORMATION

System structure	SikaWall®-1030 Easy forms part of Sikatherm® Essential Easy ETIC System, which comprises of the following products:	
	SikaWall®-1030 Easy	Cementitious mortar (acc. to EN 998-1) for bonding and rendering thermal insulation boards
	Sikatherm® EPS	Expanded polystyrene boards (EPS) with flame retardant, suitable for ETICS (acc. to EN 13163)
	SikaWall®-9160 Mesh GR	Alkali resistant glass fiber mesh for strengthening the rendering of thermal insulation boards
	SikaWall®-63 ETICS Primer	Water dispersed primer for pastelike renders
	SikaWall®-6300 Easy	Acrylic based, paste-like finishing coating (acc. to EN 15824)
	Sikatherm® Anchors	Plastic expandable fixation anchor with plastic / steel nail, for external thermal insulation composite systems (acc. to EAD 330196-00-0604) Anchor made of hot-dip galvanized or stainless steel, for high fire resistance demands and specifications

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.

IMPORTANT CONSIDERATIONS

- Ensure that only cold mixing water is used (drinking water quality)
- Do not add water over the recommended dosage
- Apply only to sound and suitable prepared substrate
- Throughout the entire application, drying and hardening phase, the ambient, substrate and material temperature must be at least +5 °C
- Unfavorable weather conditions, such as temperatures of above +35 °C, wind and direct exposure to the sun, can also affect the application properties
- Raining conditions should not be allowed to have a negative influence on drying and hardening phase
- Suitable scaffolding nets should be provided in order to protect the facade against external weather influences
- Always check material's pot life and adjust for climate conditions

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 QUALITY / PRE-TREATMENT

The substrate must be dry, sound and free from cracks, oil, grease, loose and friable particles, which could affect the correct application of SikaWall®-1030 Easy.

Concrete

The substrate must be mature (at least 28 days old). Dirty and greasy substrate must be prepared by suitable mechanical methods, such as high pressure hydroblast (max. 200 bar) with suitable cleaning agents. Repairs of the substrate and filling of blowholes/voids, must be carried out in a separate working step, using appropriate mortars (e.g. SikaRep® / Sika MonoTop® range). 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 Easy.

Masonry/ Drywall Boards

The substrate must be prepared mechanically in order to remove friable parts or remnants of old mortars. Dusty substrate should be cleaned by brushing or by high pressure hydroblast (max. 200 bar) and with suitable cleaning agents in case of greasy substances. Rinse off with clear water and allow to dry. Repair and smooth over any irregularities and cavities in a separate working step, using suitable masonry mortars, (e.g. SikaRep® range). Pre-wet the substrate up to saturation.

Rendering / Coated surfaces

The substrate must be sound, free from dust, dirt, friable parts, grease, efflorescence, e.t.c. Dirty, greasy substrate must be prepared by hydroblast (max. 200 bar) with suitable cleaning agents. Rinse off with clear water and allow to dry. 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.

In all cases, rising moisture phenomena must be treated and damp areas must dry out prior to the application. SikaWall®-1030 Easy is applied directly on concrete, masonry, renders (organic or mineral) or coated substrates.

Under normal conditions, no primer is needed. Normal absorbent surfaces are recommended to be dampened beforehand with water.

In case of extremely absorbent or demanding substrates, apply a primer depending on the type of the substrate (e.g. Sikafloor®-Primer range).

For further technical information, please consult our Technical Department.

Moisture protection is a critical consideration, as the presence of moisture may cause swelling of the substrate, particularly in drywall boards. In all cases, rising moisture phenomena must be treated and damp areas must dry out prior to the application.

After allowing the base coat sufficient time to harden and following application of the system primer, SikaWall®-1030 Easy can be applied.

Important: If SikaWall®-1030 Easy is applied too soon, there is a risk that patches will be created.

MIXING

Pour the water in the correct desired proportion into a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes, adding additional water during the mixing time if necessary up to the maximum specified amount, until a homogeneous lump-free required consistency is reached. Mix full bags for best results. Leave the mix to stand for 3 – 5 minutes and stir briefly before use.

APPLICATION

As a bonding mortar

Apply SikaWall®-1030 Easy on suitably inspected and prepared substrate, either using bead/spot method, or over the entire surface of the insulation board.

BEAD / SPOT APPLICATION METHOD

Apply a border of mortar around the circumference (bead) and 3 spots of adhesive in the middle of the insulation board.

FULL SURFACE APPLICATION

Apply on the whole backside of the insulation panel, using a notching trowel (notching dependent on the evenness of the substrate).

As a rendering mortar

The insulation panels must be carefully laid (installed), so that a complete even surface is achieved. Uneven joints between insulation boards must be sanded down and the resulting sanding dust must be thoroughly removed, prior to the application of the rendering mortar.

Note: In case of stone wool insulation boards (MW), uneven joints must be levelled by applying a smoothing layer of SikaWall®-1030 Easy (wait smoothing layer to dry before the application of the reinforced base coat).

Apply SikaWall®-1030 Easy in even thickness, using a notched trowel. While SikaWall®-1030 Easy is still fresh, apply the embedding grid (SikaWall®- 9160 Mesh range), from top to bottom -either vertically or horizontally- with an overlap of at least 10 cm, without creases. In order the full embedding to be ensured, apply a second layer of SikaWall®-1030 Easy, wet-on-wet. The mesh must be covered with at least 1 mm of SikaWall®-1030 Easy and at least 0.5 mm in the area of overlapping.

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.

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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