

PRODUCT DATA SHEET

SikaMur[®]-1000 SP

READY-MIXED MACHINE OR HAND APPLIED RENOVATING MORTAR FOR DAMP MASONRY



DESCRIPTION

SikaMur[®]-1000 SP is a ready-mixed, high-porosity breathable dehumidifying renovation mortar, in accordance with Class R, EN 998-1. It makes use of special light weight aggregates, lime and cement. SikaMur[®]-1000 SP is suitable for treatment and rehabilitation of masonry subject to rising humidity, additionally improving the thermal performance. SikaMur[®]-1000 SP is designed to be both hand and machine applied.

USES

SikaMur[®]-1000 SP is used for dehumidifying damp masonry. Used both interior and exterior on the following substrates:

- Solid brickwork masonry
- Rubble stonework masonry
- Limestone brickwork masonry
- Non-chalking blocks

CHARACTERISTICS / ADVANTAGES

- High vapour diffusion, allows evaporation of retained moisture in masonry
- Resists salt migration, efflorescence and mould
- No anti-salt treatment required
- Thermal insulation properties
- Adheres well to substrate
- Low density, light weight material
- Good workability
- Easy application, by hand or machine

SUSTAINABILITY

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations

APPROVALS / CERTIFICATES

Class R renovation mortar according to EN 998-1:2010 and provided with the CE-marking.

PRODUCT INFORMATION

Composition	Lime, cement, sand and special light weight aggregates
Packaging	20 kg lined paper bags
Appearance / Colour	Light grey powder
Shelf life	12 months from date of production
Storage conditions	Dry storage in undamaged original sealed packaging
Density	~0.975 kg/L
Maximum Grain Size	Dmax : 1.4 mm

TECHNICAL INFORMATION

Compressive Strength	≥ 4.00 MPa	(EN 1015-11)
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Tensile Adhesion Strength	≥ 1.1 MPa cohesion failure in mortar	(1015-12)
Reaction to Fire	Class A1	(EN 13501-1)
Permeability to Water Vapour	$\mu \leq 15$	(1015-19)
Water Absorption	≥ 0.3 kg/m ²	(EN 1015-18)
Water penetration after capillary absorption	3 mm	(EN 1015-18)
Thermal Conductivity	0.27 W/mK	(EN 1745:2002 Table A.12)

SYSTEMS

System Structure	SikaMur®-1000 SP is part of the Sika® rehabilitation system range for damp masonry renovation, and ideally it will be used in combination with:	
	SikaMur® InjectoCream-100	Silane based Injectable Damp Proof Course for horizontal rising damp treatment
	SikaMur® Finish	Ready-mixed lime based highly breathable finishing layer to finish SikaMur®-1000 SP or SikaMur®-Dry dehumidifying renovation mortars
	SikaMur® Color I or E	Lime based coloured paint for traditional or dehumidifying renders or plasters, to finish and protect SikaMur® Finish

APPLICATION INFORMATION

Mixing Ratio	5.2–5.6 litres of clean water per 20 kg
Consumption	20 kg powder per 20 mm layer thickness per 1 m ²
Layer Thickness	The total applied thickness must be at least 20 mm
Ambient Air Temperature	+5 °C min. / +35 °C max.
Substrate Temperature	+5 °C min. / +35 °C max.
Pot Life	30 minutes at 20 °C
Waiting Time / Overcoating	Wait at least 15 days curing before application of SikaMur® Finish on SikaMur®-1000 SP to avoid cracks in surface finishing

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Remove completely any damaged or detaching plaster coat, taking special care about the joints between bricks/stones. Masonry joints shall be stripped to approximately 20–30 mm in depth, without weakening the stability of the wall.
- Removal of any existing plaster or render shall extend up to the upper level of damaged surface, plus three times the wall thickness.
- Clean the masonry substrate with high-pressure (200–400 bar) water jet, especially along the joints. For special deposits such as bitumen, etc. contact Sika Technical Service for advice.

MIXING

Mix using a low rpm drill with a mixer or a rotary drum

mixer until a smooth, uniform and lump-free mix with a creamy consistency is achieved. Do not mix more than the required three minutes to avoid too much air entrapment in the mortar.

APPLICATION

- Application shall be carried out in at least 2 coats, first a preliminary adhesion layer followed by the rendering layer
- The adhesion layer shall be placed with a fluid like consistency
- The second layer shall be placed on the adhesion layer when it is already set.
- Spray the product using suitable mechanical wet spray equipment with the following technical parameters:

Pump capacity	22 l/min minimum
Water for thixotropic con-	~350 l/h

sistency	
Hose length	15 m maximum
Hose internal diameter	25 mm minimum (35 mm recommended)
Typical types	Putzmeister PFT G4 or G5

- Manual application by traditional technique is also possible
- Smooth the surface with a wooden trowel not to close the surface pores
- Total thickness of the two layers must be minimum 20 mm

CLEANING OF EQUIPMENT

Clean tools with water before the mortar hardens

IMPORTANT CONSIDERATIONS

- Iron or plastic tools must not be used since they close the surface texture/pores and prevent the mortar from breathing
- Finish the surface using SikaMur® Finish, a fine rendering mortar based on high breathable lime
- For over-painting the surface use products with a minimum vapour barrier action (μ not exceeding 10) to prevent blistering and detachments e.g. SikaMur® Color I for indoor use or E for outdoor use
- Small cracks may appear depending on the type of substrate the product is applied to and due to the strong de-humidification power of SikaMur®-1000 SP
- Do not apply on walls subject to a hydrostatic water pressure, contact Sika Technical Service for advice
- Keep the freshly placed mortar surface moist over several hours by protecting it from wind and direct sun light
- Protected from rain for at least 6 hours after application

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.

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.

ECOLOGY, HEALTH AND SAFETY

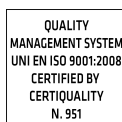
For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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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