BUILDING TRUST

PRODUCT DATA SHEET

SikaMur® Dry

RENOVATION MORTAR FOR RENDERING DAMP- AND SALT-DAMAGED MASONRY

CE

DESCRIPTION

SikaMur® Dry is a ready-mixed, breathable macro-porous renovation mortar, in accordance with Class R, EN 998-1. It makes use of special air-entraining agents, selected aggregates, lime and cement, suitable for treatment and rehabilitation of masonry subject to rising humidity. SikaMur® Dry is designed to be hand applied.

USES

SikaMur® Dry is used for dehumidifying damp masonry
Used both in- 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 migrations, salt efflorescence and moulds
- No anti-salt treatment required
- Evident humidity absorption
- Adheres well to substrate
- Good workability
- Easy application, like a traditional plaster

APPROVALS / CERTIFICATES

CE-marking and Declaration of Performance as Renovation mortar, Designed rendering/plastering mortar used on moist masonry walls containing water soluble salts, Class R, according to EN 998-1:2010, based on type testing and factory production control.

PRODUCT INFORMATION

Composition	One-component dry mix mortar based on lime, cement, sand and special additives.
Packaging	25 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	1.55 ± 0.10 kg/L
Maximum Grain Size	Dmax: 2.5 mm

TECHNICAL INFORMATION

Compressive Strength	≥ 3.0 MPa	(EN 1015-11)
Tensile Strength in Flexure	~ 1.23 MPa	(EN 1015-11)

Tensile Adhesion Strength	≥ 0.6 MPa cohesion failure in mortar	(EN 1015-12)
Freeze thaw resistance	Passes	(EN 1015-21)
Reaction to Fire	Class A1	(EN 13501-1)
Permeability to Water Vapour	μ ≤ 15	(EN 1015-19)
Capillary Absorption	≥0.3 kg/m²	(EN 1015-18)
Water penetration after capillary absorption	~3 mm	(EN 1015-18)
Salt Resistance	passed	(WTA 2-9-04/D)
Thermal Conductivity	~0.67 W/mK	(EN 1745:2002 Table A.12)

SYSTEMS

System Structure

SikaMur® Dry 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® Dry or SikaMur®-1000 SP dehumidifying renovation mortars
SikaMur® Color E	Lime based coloured paint for traditional or dehumidifying renders or plasters, to finish and protect SikaMur® Finish

APPLICATION INFORMATION

Mixing Ratio	2.9 – 3.4 litres of clean water per 25 kg
Consumption	~30 kg/m² powder for 20 mm layer thickness
Layer Thickness	The total thickness of the two layers SikaMur® Dry (adhesion layer + render) 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	For applying SikaMur® Dry on SikaMur® Dry wait unitl the previous layer has set. Wait at least 15 days curing before application of SikaMur® Finish on SikaMur® Dry to avoid cracks in surface finishing

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Completely remove any damaged or detaching plaster coat, taking special care about the joints between bricks. Joints shall be stripped in 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 jets,especially along the joints. For special deposits such as bitumen, salts, etc. contact Sika technical service for advice.

MIXING

Use a low rpm drill with a mixer or a rotary drum mixer.
Pour the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly unitl a smooth, uniform and lump-free mix is achieved. Add additional water within the mixing time if necessary to the maximum specified amount to adjust to the required consistency. Do not mix more than three minutes to avoid excessive air entrappment in the mortar.

APPLICATION

Always apply minimum 2 coats, first a preliminary adhesion layer followed by the rendering layer

- Place the adhesion layer preparing a fluid-like consistency of SikaMur® Dry.
- Wait until the adhesion layer starts to stiffen and then apply SikaMur® Dry with a creamy consistency. This will allow building up the required layer thickness.
- Apply by trowel using traditional methods.
- Smooth the surface with a wooden trowel.
- Apply additional layers if a higher total thickness is required.

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.

IMPORTANT CONSIDERATIONS

- Iron or plastic tools must not be used since they close the air bubbles and prevent the mortar from breathing.
- Finish the surface using only a fine rendering mortar based on high breathable lime e.g. SikaMur® Finish.
- 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 E (indoor and outdoor applications).
- 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® Dry.
- Do not apply on walls subject to a hydrostatic water pressure. Contact Sika technical service for advice.
- Protect freshly applied material from wind and direct sun to keep it moist.
- 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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