

PRODUCT DATA SHEET

SikaMur[®]-200 M15

STRUCTURAL MORTAR FOR MASONRY, CLASS M15, NATURAL HYDRAULIC LIME BASED, FOR BEDDING, JOINTING AND REINFORCED PLASTERS

DESCRIPTION

SikaMur[®]-200 M15 is a premixed mortar, based on natural hydraulic lime, pozzolanic binders, selected fine aggregates and fibers.

USES

SikaMur[®]-200 M15 is suitable for use as plaster for the restoration and consolidation of masonry curtain walls, brick, stone, concrete blocks walls, also in combination with alkali-resistant fiberglass mesh (both CRM and FRCM strengthening systems). The product is also suitable for use as a mortar bedding and filling bearing walls and curtain walls.

FEATURES

- Good permeability to water vapour
- Excellent workability
- Can be applied manually or mechanically with a plastering machine

- Compatible with various types of masonry (brick, tuff, natural stone, concrete blocks)
- Suitable for bedding, rendering, stitching, jointing, pointing, reinforced plasters

SUSTAINABILITY

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

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance to EN 998-1, Class GP
- CE Marking and Declaration of Performance to EN 998-2, Class M15

PRODUCT INFORMATION

Composition	Natural hydraulic lime NHL 3.5 (according to EN 459-1), hydraulic binders with pozzolanic action, selected fine aggregates and fibers.	
Packaging	25 kg bags	
Appearance and colour	Powder (beige)	
Shelf life	12 months from the date of production	
Storage conditions	Store properly in original unopened, sealed and undamaged packaging in dry conditions, at temperatures between +5 °C and +30 °C. Protect from moisture.	
Density	Dry hardened mortar density	~1500 kg/m ³
	Fresh mortar density	~1900 kg/m ³
Maximum grain size	D _{max} =1.5 mm	

TECHNICAL INFORMATION

Compressive strength	Class CS IV Class M15 >15 MPa (28 days)	(EN 998-1) (EN 998-2) (EN 1015-11)
Flexural-strength	>5 MPa (28 days)	(EN 1015-11)
Tensile adhesion strength	>0.8 MPa (FP: A) ~0.5 MPa	(EN 1015-12) (EN 1052-3)
Permeability to water vapour	$\mu \leq 20$ μ 15/35 (tabulated value)	(EN 1015-19) (EN 1745 A.12)
Capillary absorption	Class W1 ~0.3 kg m ⁻² h ^{-0.5}	(EN 998-1) (EN 1015-18)
Thermal conductivity	~1.00 W/mK (tabulated value)	(EN 1745 A.12)

APPLICATION INFORMATION

Mixing ratio	4.75 – 5.25 lt of water for 25 kg of powder (19 – 21 % in weight)
Consumption	~1.65 kg/m ² /mm
Yield	~62 lt of mortar per 100 kg of powder
Layer thickness	20 mm maximum per layer
Ambient air temperature	+5 °C min. / +30 °C max.
Substrate temperature	+5 °C min. / +30 °C max.
Pot Life	~90 min at +20 °C

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

- Do not add water over the recommended dosage
- Do not add cement or other substances that could affect the properties of the mortar
- Do not add water or fresh mortar to a mortar mix which has already started setting
- Avoid application in direct sun and/or strong wind
- Apply only to sound, prepared substrate
- Protect freshly applied material from freezing and from rain
- Do not add additional water during the surface finishing as this will cause discolouration and cracking
- Record ambient and substrate temperatures before and during application

ECOLOGY, HEALTH AND SAFETY

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

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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be structurally sound, thoroughly clean and free from dust, dirt, remnants of old renderings and loose material, surface contamination such as oil or grease, cement laitance which reduce bond or prevent suction or wetting. The substrate should be prepared by suitable mechanical preparation techniques, such as high water pressure or grind blasting, mechanical or manual breakers. Non impact / vibrating cleaning methods are preferred.

Gaps in the masonry and flatness defects must be restored using masonry elements consistent with the original. Repeatedly wet the surface thoroughly, starting wetting a few hours before laying SikaMur®-200 M15.

In cases of weak masonries with cracks, voids and gaps inside, mechanical performance should be increased by grouting or low-pressure injection using products of SikaMur® Grout series.

MIXING

SikaMur®-200 M15 can be mixed with a low speed (~ 500 r.p.m.) electrical hand drill mixer or using a force action pan mixer for large volumes. 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 up to the maximum specified amount, until a homogeneous lump-free required consistency is reached. Mix full bags for best results.

APPLICATION

Application can be carried out by trowel (for masonry leveling or rendering), joint trowel (for pointing or re-pointing), using Sika Pointing gun, hand (for concrete patch repairs, decorations, edges, forming of joints, honey comb filling, etc.) or mechanically using wet spray equipment on the well prepared substrate. Thoroughly pre-wet the prepared substrate, recommended 2 hours before applying SikaMur®-200 M15. Keep the surface wet and do not allow drying. Before application remove excess water e.g. with a clean sponge. The surface shall appear a dark matt appearance without glistening and surface pores and pits shall not contain water.

As a leveling / rendering mortar

SikaMur®-200 M15 should be applied in 2 coats using a trowel or spray techniques, a preliminary adhesion layer followed by the rendering layer. The adhesion layer should be applied with a fluid like consistency. Once the adhesion layer has set then the rendering layer should be applied with a creamy consistency, which can be built up to the required thickness. Apply subsequent layers if required. Keep the fresh mortar surface moist over several hours by protecting it from wind and direct sunlight.

As a pointing mortar

Remove any loose joint material and if required fill bed joint using SikaMur®-200 M15. When the bed joint is cured, apply the product as a joint mortar by using a joint trowel, a trowel, hand or using Sika Pointing gun. In all cases, ensure that the product will be well-compacted. In cases of high-width joints, firmly scrap SikaMur®-200 M15 on the substrate surface to form a thin layer as a scratch coat. Then apply the product exerting good pressure and compacting well the product on the area. The surface can be finished according to the requirements using a plastering trowel (sponge trowel) while wet, a relevant rough-cast tool as soon as the mortar has started to stiffen or by a wet brush according to the aesthetic aspect.

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.

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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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