

# PRODUCT DATA SHEET

## SikaMur® Grout+

NATURAL HYDRAULIC LIME BASED MASONRY CONSOLIDATION GROUT



### DESCRIPTION

SikaMur® Grout+ is a ready-mixed grout based on Natural Hydraulic Lime (NHL 3.5). It is a cement free, highly fluid grout, for consolidation masonry structures. It is applied by simple gravity pouring into holes or by low-pressure injection.

### USES

SikaMur® Grout+ fills holes, cracks, crevices and cavities in brick, sand- or natural stone or tuff masonry constructions. The fluid like consistency makes it possible to apply either by pouring or low-pressure injection. It is therefore suitable for smoothing and re-aggregating existing uneven structures or for really consolidating and structurally reinforcing stone, brick or mixed masonry.

SikaMur® Grout+ is also suitable for securing metal rods running within masonry for structural strengthening of masonry crack reinforcement (the “stitching reinforcement” technique).

SikaMur® Grout+ can be used in combination with SikaMur® rehabilitation mortars for masonry with capillary rising damp and soluble salts.

### CHARACTERISTICS / ADVANTAGES

- Natural Hydraulic Lime (NHL 3.5) based, cement free
- Easy pouring or low-pressure injecting
- Once mixed, the grout is extremely fluid and non-viscous whilst also being cohesive and not separating
- Very low heat generation when setting and hardening
- Generation of final mechanical strength and modulus of elasticity are compatible and suitable to the performance of masonry structures
- After hardening, the masonry structure is aggregated and consolidated, restoring its overall mechanical performance
- The grout’s high degree of fluidity means it can fill a large amount of internal holes and gaps
- For masonry with capillary rising damp and soluble salts
- SikaMur® Grout+ will not chemically react with any water-soluble compounds present in the materials in masonry.

### SUSTAINABILITY

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

### APPROVALS / CERTIFICATES

General purpose masonry mortar for external use in elements subject to structural requirements according to EN 998-2:2010, Declaration of Performance 28111117, certified by Factory Production control body 0546, certificate of conformity of the factory production control 18775, and provided with the CE-marking

### PRODUCT INFORMATION

#### Composition

Monocomponent mortar based on natural hydraulic lime (NHL 3.5), sand and special additives.

Packaging	25 kg lined paper bags
Appearance / Colour	Beige powder
Shelf life	12 months from date of production
Storage conditions	Dry storage in undamaged original sealed packaging
Density	1.9 ± 0.05 kg/L
Maximum Grain Size	Dmax: 0.5 mm
pH-Value	alkaline

## TECHNICAL INFORMATION

Compressive Strength	<b>7 days</b>	<b>28 days</b>	(EN 1015-11)
	≥7.5 MPa	≥10.0 MPa	
Reaction to Fire	Class A1	(EN 13501-1)	
Thermal Conductivity	0.27 W/mk	(EN 1745:2002 Table A.12)	

## SYSTEMS

System Structure	SikaMur® Grout+ is part of the Sika® rehabilitation system range for damp masonry renovation, and for this purpose ideally to be used in combination with:		
	SikaMur® InjectoCream-100	Silane based Injectable Damp Proof Course for horizontal rising damp treatment	
	SikaMur® Dry	Ready-mixed hand applied renovating mortar for damp masonry	
	SikaMur®-1000 SP	Ready-mixed machine- or hand applied renovating mortar for damp masonry	
	SikaMur® Finish	Ready-mixed lime based highly breathable finishing layer to finish SikaMur® Dry or SikaMur®-1000 SP 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	7.75 - 8.25 litres of clean fresh water per 25 kg (water/powder ratio 31 % to 33 %)
Yield	~16.9 L of fresh mortar per 25 kg bag
Pot Life	Approximately 35 min at +20 °C

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Seal all superficial gaps such as joints between sections, cracks, crevices, preventing the freshly applied product from leaking through them. Install a closed injection circuit. At least 24 hours before injection-filling with SikaMur® Grout+ start to inject fresh water for saturating the pores and for removing any loose particles.

### MIXING

Use grout mixers with a low rotation speed. Pour 80–90 % of the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly for 3–5 minutes. Add additional water during the mixing time if necessary to the maximum specified amount and adjust the grout to the required consistency.

## APPLICATION

Drill a series of holes (16–24 mm in diameter with a sufficient depth) slightly angled downwards into one side of the masonry. The holes shall be arranged in the form of a regular horizontal and vertical grid, at a spacing of approximately 80–120 cm. The pattern and spacing of the grid depend on the masonry thickness and the structural requirements.

Insert the injection tubes into the holes and fix with quick-setting grout.

After mixing, pour the fresh grout into the injection pump and inject, starting from the injection tubes at the lowest level, to avoid liquid grout leaking from adjacent tubes. Make sure to close any injection tubes where fluid material is leaking out. Only proceed to inject into a higher level tube if fluid SikaMur® Grout+ flows out from all injection tubes at the previous lower level.

2–3 days after the first injection drill a second series of holes into the masonry. Arrange the holes in a grid pattern, centered in between the previously injected holes.

Insert injection tubes and repeat the injection following the same procedure.

If using SikaMur® Grout+ for pouring, the grout must be poured by gravity into the relevant cavity.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

## IMPORTANT CONSIDERATIONS

Use SikaMur® Grout+ within the stated pot life. Do not add water after this period of time.

## BASIS OF PRODUCT DATA

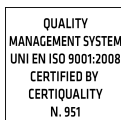
All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## 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.

### Sika Italia S.p.A.

Via Luigi Einaudi, 6  
20068 Peschiera Borromeo (MI)  
Phone: +39 02 54778 111  
Fax: +39 02 54778 119  
info@sika.it  
www.sika.it



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## ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

## 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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