

# PRODUCT DATA SHEET

## Sika ViscoBond® GR

NEW GENERATION BONDING AGENT AND ADMIXTURE FOR MORTAR AND CONCRETE



### DESCRIPTION

Sika ViscoBond® GR is a concentrated liquid admixture designed for use as a bonding agent with cement-based products in interior or exterior applications. It is also designed for use as a modifier in mortars and concrete to waterproof them, enhance the workability and to develop increased tensile, flexural and bond strengths.

### USES

4 in 1: Bonding agent – water resisting admixture – plasticiser – strength improver

- Bonding slurry coats applied before placing renders and screeds
- Waterproof renderings and coatings with increased adhesion and less cracking (also suitable for gypsum or lime based plasters)
- High strength floor screeds / overlays with less dusting and high water and wear resistance
- Pointing and filling mortar for voided masonry joints
- Patching, repair and re-profiling mortars

### CHARACTERISTICS / ADVANTAGES

- Concentrated high performance formulation powered by the Sika® ViscoCrete® technology
- Increased bond strength - excellent adhesion even on smooth substrates
- Decreased permeability
- Significantly improved workability
- Reduced cracking
- Increased resistance to frost damage
- Enhanced strength, elasticity and impermeability
- Improves the chemical resistance of mortar and concrete

### APPROVALS / STANDARDS

- Water resisting admixture according to EN 934-2:2009+A1:2012 (Table 9), Declaration of Performance 18122705, and provided with the CE-mark.
- Air entraining / plasticizing admixture according to EN 934-03:2009+A1:2012 (Table 2), Declaration of Performance 48628713, and provided with the CE-mark.

### PRODUCT INFORMATION

<b>Chemical base</b>	Aqueous dispersion of butadiene-styrene and modified polycarboxylate
<b>Packaging</b>	3.5L and 10L plastic bottles
<b>Appearance / Colour</b>	Light bluish liquid
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Store properly in original, undamaged and sealed containers, in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
<b>Density</b>	~ 1.0 g/cm <sup>3</sup> (at +23°C)
<b>pH-Value</b>	5.5 ± 1

## Mortar Mix Design

### Bonding slurry for screeds

Dry ingredients:

- 1 part per volume cement
- 1-2 parts per volume sand

Dilution of Sika ViscoBond® GR with water:

- 1:2 up to 1:4 per volume Sika ViscoBond® GR

### Mortar

Dry ingredients:

- 1 part per volume cement
- 2-4 parts per volume sand

Dilution of Sika ViscoBond® GR with water:

- 1:2 up to 1:7 per volume Sika ViscoBond® GR

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## APPLICATION INFORMATION

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### Recommended Dosage

In all cases (see Mortar Mix Design), mix the dry ingredients together and then add the dilution of Sika ViscoBond® GR with water in the required quantity, until a homogeneous mix with the demanded workability is produced.

### Consumption

Sika ViscoBond® GR covers a wide range of applications. Its consumption depends on parameters, such as:

- The type and quantity of the cement
- The aggregate characteristics
- The intended use of the produced mix

Approximate consumption:

- **As a bonding slurry:** 0.10 – 0.16 lt/ m<sup>2</sup>/ mm of layer thickness (Until obtaining the desired consistency)
- **As an admixture in mortar:** 0.3 – 0.6 lt/ 10 lt of mortar (Different percentages of dilution can be used after preliminary testing)
- **As an admixture in concrete:** up to 10% by weight of cement (Before application, suitability tests must be performed)

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## APPLICATION INSTRUCTIONS

### APPLICATION METHOD / TOOLS

**Step 1:** Add the product to the mixing water at the specified dilution rate per application type.

**Step 2:** Mix the dry ingredients together, add the dilution in the required quantity while mixing for at least 90 seconds, until a homogeneous mix with the demanding workability is produced.

### LIMITATIONS

- A suitable mix design should have been taken into account and local material sources should be trialled, when using Sika ViscoBond® GR.
- Do not use Sika ViscoBond® GR at temperatures below 5°C.
- Sika ViscoBond® GR should not be added to dry cement.
- Always ensure that minimal gauging solution is used to the early stages of the mix and add extra at the end. This will assist the achievement of the required consistency.
- Before application, suitability tests must be performed.

## 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. 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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