

PRODUCT DATA SHEET

Sika ViscoBond®

New generation bonding agent and improver for mortar and concrete

PRODUCT DESCRIPTION

Sika ViscoBond® is a revolutionary all-in-one liquid admixture with Sika ViscoCrete® technology for mortar and concrete. It is a concentrated liquid polymer designed for superior use as a primer, hardener, plasticiser, waterproofer and bonding agent with cement based products.

USES

Sika ViscoBond® can be used as a bonding agent, as a waterproofing admixture, as a plasticiser and as a strength improver suitable for:

- Waterproofing mortars and coatings which require increased adhesion and reduced cracking (it is also suitable to be used as a bonding primer or improver of gypsum and lime based plasters)
- High strength flooring screeds / overlayments with reduced superficial dust creation and high water and wear resistance
- Patch, repair and reprofiling mortars
- Pointing / jointing mortar for masonry joints
- Interior and exterior use

CHARACTERISTICS / ADVANTAGES

- Concentrated high performance formulation powered by the Sika Viscocrete® technology
- Multipurpose 4 in 1 product
- Significantly improved workability
- Enhanced strength and waterproofing properties
- Excellent adhesion, even on smooth substrates
- Reduced cracking
- Increased resistance to frost and freeze and thaw damages
- Improved chemical resistance of mortar and concrete

APPROVALS / STANDARDS

The product conforms to EN-934-2:T9.

PRODUCT INFORMATION

Chemical Base	Butadiene-styrene dispersion and modified polycarboxylate
Packaging	5Ltr jerry
Appearance / Colour	Light blue liquid
Shelf Life	12 months
Storage Conditions	Store properly in undamaged original sealed packaging, in dry cool conditions at temperatures between +5 °C and +25 °C. Protect from direct sunlight and frost.
Density	~1.02 kg/l at +23 °C
pH-Value	~6.0

TECHNICAL INFORMATION

Mortar Mix Design	Prepare a gauging liquid by mixing 1 part of Sika ViscoBond® with 3 parts of clean water. Use this gauging liquid for mixing the bonding bridge or mortar.
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APPLICATION INFORMATION

Consumption	Approx. 10–12 % of Sika ViscoBond® by weight of cement. <ul style="list-style-type: none">▪ As bonding primer: ~0.09 l/m² per mm layer thickness▪ As a mortar admixture: ~0.3–0.4 litres per 10 litres of mortar
Ambient Air Temperature	+5 °C min.
Substrate Temperature	+5 °C min.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate must be clean. All traces of dirt, oil, grease, cement laitance and any loose or deteriorated concrete must be removed.

Pre-dampen by saturating the substrate with clean water (no standing water!)

APPLICATION METHOD / TOOLS

Bonding Bridge

Mix 1 volume part of cement with 1 volume part of sand and add the gauging liquid while mixing, until a thick creamy consistency is obtained. Brush the mix thoroughly into the substrate with a stiff-bristled broom or a scrub brush.

Mortar

Mix 1 part of cement (by volume) with 2–3 parts of sand (by volume) and add the gauging liquid while mixing, until the desired consistency of the mix is obtained. Apply the mortar following standard procedures.

CLEANING OF TOOLS

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

LIMITATIONS

- Always develop and test a suitable mix design based on local materials before using Sika ViscoBond®
- Do not use at temperatures below +5 °C
- Don't add Sika ViscoBond® directly to dry cement or mortar
- Always ensure that a minimal quantity of gauging liquid is used at the early stages of mixing and add the majority at the end. This will also assist in obtaining the required consistency.
- Before starting the application, product suitability tests / trials should always be performed

VALUE BASE

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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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Product Data Sheet

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