

PRODUCT DATA SHEET

SikaBond® DV

Economical Water Resistant Bonding Agent And Mortar Admixture

DESCRIPTION

SikaBond® DV is a synthetic rubber emulsion that is used as admixture for cementitious bonding bridges and high quality site-mix mortars. Suitable for use in hot and tropical climatic conditions.

USES

SikaBond® DV is used as bonding agent and site-mix mortar admixture for the following applications:

- Thin layer patching mortars
- Renders
- Floor screeds
- Concrete repair mortars
- Abrasion resistant linings
- Tile fixing mortars
- Masonry mortars
- Bonding slurry for fresh to old concrete

FEATURES

SikaBond® DV is simply added to the mixing water to improve the following properties:

- adhesion
- shrinkage
- water resistance
- abrasion resistance
- chemical resistance

SikaBond® DV is non-corrosive, ready to use and does not re-emulsify, even under highly alkaline conditions.

CERTIFICATES AND TEST REPORTS

- SikaBond® DV is certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL) certificate No. CL17020432
- SikaBond® DV follows the requirements of ASTM C1059 for Type II for bonding fresh to hardened concrete, when applied as a bonding slurry.

PRODUCT INFORMATION

Composition	Styrene Butadiene Rubber
Packaging	20 L pails, 25 L pails and 200 L drums
Shelf life	12 months minimum from production date
Storage conditions	Store in a dry area in original packaging and at temperatures between +5°C and +35°C. Protect from direct sunlight, heat and moisture.
Appearance and colour	White liquid
Density	~1.00 kg/l (+25°C)
Total chloride ion content	Nil (EN 934-2)

APPLICATION INFORMATION

Recommended dosage

BONDING SLURRY FOR FRESH TO OLD CONCRETE:

SikaBond® DV : Ordinary Portland Cement (OPC) = 1 : 2

Note: Trial mixes must be performed to establish the exact dosage rate required. For optimum results, always ensure that the correct SikaBond® DV : Water ratio is used.

MORTARS AND RENDERS:

Trial mixes must be performed to establish the exact dosage rate required. For optimum results, always ensure that the correct SikaBond® DV : Water ratio is used. Depending on the application and performance required, SikaBond® DV may be added to the clean mixing water within the range of 1:1 to 1:2. For all applications, apart from sprayed on renders, a bonding bridge should be brushed into the prepared surface.

Mortar thickness	Aggregate size
< 2 mm	0 - 0.5 mm
2 - 5 mm	0 - 1.0 mm
5 - 15 mm	0 - 3.0 mm
> 15 mm	0 - 7.0 mm

Note: The above mixes are for guidance only and based on the use of sharp, well graded aggregates and dry sand.

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- Never use pure SikaBond® DV or SikaBond® DV-water mix directly onto the substrate. Always mix with cement and aggregate (optionally, for mortars or renders).
- The standard rules of good practice for production and placing of bonding bridge, repair and adhesive mortars must be observed when using SikaBond® DV. Refer to relevant standards.
- Fresh applied mortar must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® WB product as a curing agent or apply curing by polyethylene sheet and wet hessian.
- Higher dosages can be used depending on the mix design, raw materials, climatic conditions and mortar requirements.
- Trial mixes must be performed to establish the exact dosage rate required.
- We recommend to perform trial mixes to establish the required performance when combining SikaBond® DV with other products.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces should be clean, sound, rough and free from oil, grease, cement laitance and all loosely adhering particles. The surface should be in a saturated surface dry condition (SSD).

Rust, scale, dust and other loose and deleterious materials which reduces bond or contributes to corrosion shall be removed.

MIXING

BONDING SLURRY:

Mix together with fresh cement to a homogeneous brushable slurry consistency. The resulting bonding slurry should be brushed well onto the prepared surface.

MORTARS AND RENDERS:

Mixing can be done in any suitable concrete mixer, such as a pan mixer. First add the cement and aggregate into the mixer and mix to a uniform consistency. Then add the required quantity of SikaBond® DV and mix slowly for at least 2 minutes. Apply by steel trowel and finish with a wooden float.

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.

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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ISO 9001, 14001, 45001 – SGS
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- Sika MB Construction Chemicals LLC
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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