

PRODUCT DATA SHEET

SikaPaver® HC-1

High performance compaction aid for semi-dry concrete products

DESCRIPTION

SikaPaver® HC-1 is a high performance compaction aid for semi-dry concrete, especially designed for even mould filling behaviour in combination with swipe formation at the concrete element flanks.

USES

- Concrete Pavers/Block Paving
- Masonry blocks
- Kerbstones
- Concrete pipes and manholes
- Concrete Roof-tiles

CHARACTERISTICS / ADVANTAGES

SikaPaver® HC-1 has been designed especially for the application in semi-dry concrete and causes:

- Better dispersion and wetting of cement, additives and pigments
- Reduced friction between cement and aggregates
- Introduction of small, evenly distributed air pores

This leads in fresh semi-dry concrete to the following advantages:

- Granular mould-filling properties also at higher water contents
- Stronger compactability, which allows for example achieving shorter cycle time or higher concrete densities
- Reduced adhesion between the face mix and the tamper head
- Increased green strength (shape keeping) after immediate de-molding

In hardened concrete, SikaPaver® HC-1 hence causes:

- Higher concrete density and strength
- Smoother and more homogenous concrete surfaces and flanks
- Increased frost and de-icing resistance
- Better durability
- Less quality variations and consequently less second grade products

APPROVALS / STANDARDS

Corresponds to EN 934-2 Table 5 (air entrainer).

PRODUCT INFORMATION

Chemical Base	Surfactant
Packaging	Drum: 200 Litre IBC: 1000 Litre
Appearance / Colour	Clear liquid
Shelf Life	12 months from date of production if stored properly in original, unopened packaging. After prolonged Storage, agitate the product before using.
Storage Conditions	Protect from frost, intense sunlight and contamination. In case of bulk delivery, the tanks and equipment used must be clean.

Density	1.00 kg/dm ³ at +20°C
pH-Value	ca. 7
Total Chloride Ion Content	≤ 0.10 %
Equivalent Sodium Oxide	≤ 0.5 %

APPLICATION INFORMATION

Recommended Dosage	0.1% - 0.6% of cement weight
Dispensing	SikaPaver® HC-1 shall be added with the mixing water or introduced at the end of the mixing process. The necessary mixing time after the admixture dosage depends on the individual mixer.
Restrictions	Before use suitability tests must be performed. Sufficient compaction of base and face concrete is essential to ensure the targeted performance parameters of the manufactured semi-dry concrete elements. For further information and advice, please contact our Technical Service Department. The use of SikaPaver® HC-1 in wet cast concrete is not suitable.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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