

# PRODUCT DATA SHEET

## SikaPaver® HC-1

### HIGH PERFORMANCE COMPACTION AID FOR SEMI-DRY CONCRETE PRODUCTS

#### PRODUCT 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

<b>Chemical Base</b>	Surfactant
<b>Packaging</b>	Drum: 200 kg net weight IBC: 1000 kg net weight Bulk: min 6 t
<b>Appearance / Colour</b>	Orange liquid
<b>Shelf Life</b>	12 months from date of production if stored properly in original, unopened packaging. After prolonged Storage, agitate the product before using.
<b>Storage Conditions</b>	Protect from frost, intense sunlight and contamination. In case of bulk delivery, the tanks and equipment used must be clean.
<b>Density</b>	1.00 kg/dm <sup>3</sup> at +20°C

<b>pH-Value</b>	ca. 7
<b>Total Chloride Ion Content</b>	≤ 0.10 %
<b>Equivalent Sodium Oxide</b>	≤ 0.5 %

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.1% - 0.6% of cement weight
<b>Dispensing</b>	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.
<b>Restrictions</b>	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.

## 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 the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

## 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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