

## PRODUCT DATA SHEET

# Sika® ViscoCrete®-2025 HS

### HIGH PERFORMANCE SUPERPLASTICISER

#### DESCRIPTION

Sika® ViscoCrete®-2025 HS is a third generation superplasticiser for concrete and mortar. It is particularly developed for the production of high flow concrete with exceptional flow retention properties and significant reduction in bleeding and segregation. Sika® ViscoCrete®-2025 HS complies with ASTM C494 Type F.

#### USES

Sika® ViscoCrete®-2025 HS facilitates excellent flowability with optimal cohesion and longer slump retention properties. Sika® ViscoCrete®-2025 HS is used for the following types of concrete:

- High flow concrete
- Self-compacting concrete (S.C.C)
- High strength concrete
- Watertight concrete

The combination of high water reduction, excellent flowability and long slump retention provides clear benefits in the above mentioned applications.

#### FEATURES

Sika® ViscoCrete®-2025 HS acts by surface adsorption on the cement particles producing a sterical separation effect. Concrete produced with Sika Sika® ViscoCrete®-2025 HS exhibits the following properties:

- Excellent flowability (resulting in highly reduced placing and compacting efforts)
- Strong self-compacting behaviour
- Improved shrinkage and creep behaviour
- Increased carbonation resistance of the concrete
- Improved finish
- Reduce tendency to bleeding and segregation

Sika® ViscoCrete®-2025 HS does not contain chlorides or other ingredients which promotes steel corrosion. Therefore, it may be used without restriction for reinforced and pre-stressed concrete construction

#### PRODUCT INFORMATION

<b>Composition</b>	Modified aqueous solution of modified polycarboxylate copolymers
<b>Packaging</b>	200 L drums 1000 L bulk (returnable bulk) IBC Bulk (non returnable bulk)
<b>Appearance and colour</b>	Liquid
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +10 °C and +35 °C. Protect from direct sunlight and frost.

# TECHNICAL INFORMATION

<b>Concreting guidance</b>	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.
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## APPLICATION INFORMATION

<b>Recommended dosage</b>	1.0 - 4.0 % by weight of binder. Other dosages may also be used depending on the specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.
<b>Compatibility</b>	<p>Sika® ViscoCrete®-2025 HS may be combined with the following products:</p> <ul style="list-style-type: none"><li>▪ Sika® Plastiment® Series</li><li>▪ Sika Viscoflow® Series</li><li>▪ SikaFume®</li><li>▪ SikaFiber®</li></ul> <p>Do not use viscoconcrete or viscoflow series combined with sikament series. To produce flowing and or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required. Please consult to our Technical Service Department.</p>

## 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.

## 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

### APPLICATION

Sika® ViscoCrete®-2025 HS is a ready-to-use admixture to be added to the concrete mix. Optimal mixing is obtained if Sika® ViscoCrete®-2025 HS is poured into the concrete mix right after the addition of the first 80% of the mixing water. Avoid adding the admixture to the dry aggregates. A separate dispenser and feed line must be used.

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## 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.