

# PRODUCT DATA SHEET

## Sika® ViscoCrete®-210 HE

HIGH PERFORMANCE PRECAST SUPERPLASTICIZING CONCRETE ADMIXTURE



### DESCRIPTION

Sika® ViscoCrete®-210 HE is a high performance superplasticizer for precast applications.

### USES

Sika® ViscoCrete®-210 HE is suitable for the production of concrete in cases of demands for high strength development and increased flowability. It is used mainly:

- For concrete with high early and final strengths
- For high demand qualitative concrete
- In precast concrete
- For applications where fast striking is demanded

### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-210 HE as a powerful superplasticizer features the following advantages:

- Offers exceptional plasticizing effects, which result in flow ability improvement and improved behaviour during casting and compaction
- Significant improvement in early strength development, resulting in shorter demoulding times
- Concrete with higher density and reduced water absorption
- Concrete with increased strength in mechanical and chemical attacks, durability over time
- Improved shrinkage and creep
- Good aesthetical results and increased durability of constructions

Sika® ViscoCrete®-210 HE does not contain chloride ions and is therefore suitable for prestressed and reinforced concrete.

### APPROVALS / CERTIFICATES

High range water reducing / superplasticizing admixture according to EN 934.02:2009, T.3.1 - 3.2, Declaration of Performance 16653619, and provided with the CE Mark.

### PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| <b>Chemical base</b>       | Aqueous polymer solution   |
| <b>Packaging</b>           | IBC, 210 kg drums, 20 kg pails<br>Bulk supply upon request   |
| <b>Appearance / Colour</b> | Liquid, light brown  |
| <b>Shelf life</b>          | 8 months from date of production   |
| <b>Storage conditions</b>  | Store properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost. |
| <b>Density</b>             | ~1,04 kg/l (at +20°C)  |

|                            |                  |
|----------------------------|------------------|
| pH-Value                   | 6-8 (at +20°C)   |
| Total Chloride Ion Content | Free (EN 934.01) |

## TECHNICAL INFORMATION

|                     |   |
|---------------------|---|
| Concreting Guidance | The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly. |
| Specific Advice     | Effect on setting: Accelerating   |

## APPLICATION INFORMATION

|                    |  |
|--------------------|--|
| Recommended Dosage | 0,3-1,6% by weight of cement   |
| Compatibility      | Sika® ViscoCrete®-210 HE can be combined with the following Sika products:<br>- Sika® -1+ / Sika® WT-200 P<br>- Sika® Visco I-100<br>- Sika-Aer® Fine<br>- Sika® Ferrogard®-901 S<br>- Sikafume® HR-E / Sikacrete® AR<br>- SikaRapid®-2<br>- Sika® Antifreeze<br>Trials are recommended before combining products.   |
| Dispensing         | Sika® ViscoCrete®-210 HE is added to the gauging water at the plant or added on-site into the concrete mixer.  |
| Restrictions       | <ul style="list-style-type: none"> <li>▪ When using Sika® ViscoCrete®-210 HE a suitable mix design has been taken into account and local material sources should be trialed.</li> <li>▪ Sika® ViscoCrete®-210 HE should not be added to dry cement.</li> <li>▪ Sika® ViscoCrete®-210 HE should be added with the mixing water or introduced at the end of the mixing process.</li> <li>▪ Before application, suitability tests must be performed.</li> </ul> |

## 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.

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