

PRODUCT DATA SHEET

Sika® ViscoCrete®-7114 HE

High range water reducing admixture for concrete

DESCRIPTION

Sika® ViscoCrete®-7114 HE is optimized for use where the time between concrete mixing and placing is rapid, such as when using bucket skips or direct discharge from mixer to unit. In this instance, the workability life of the concrete is optimized to give a balance between the retention of the workability but still enabling the strength development process to start as soon as possible. The particular molecular configuration of accelerates the cement hydration by allowing an increased surface area of the cement particle to react with water. Robustness and controlled retention is a distinctive feature of the precast concrete produced with .

USES

Sika® ViscoCrete®-7114 HE is suitable for making precast concrete elements with highly workable, non-segregating concrete utilizing low water cement ratios and, consequently, high early and final strengths. This can be achieved for economic, ecological and ergonomic precast production.

CHARACTERISTICS / ADVANTAGES

- Enables concrete mixes with low water-cement ratio and eco-friendly, CO₂-reduced mix designs
- Improves flowability
- Enables low-energy placing and compacting
- Enhances robustness and consistency in concrete quality with low stickiness
- Improves surface finishing
- Achieves high early strengths
- Eliminates or minimizes heat curing
- Increases productivity, reduces cycle time
- Promotes high density and high final strength
- Improves surface appearance and durability of concrete
- Reduces shrinkage, creep, and water permeability
- Free of chlorides

APPROVALS / STANDARDS

Conforms to IS 9103 / ASTM C494

PRODUCT INFORMATION

Chemical base	Modified polycarboxylic ether based
Packaging	255kg drum/ bulk supply
Appearance / Colour	Light to dark reddish brown liquid
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +40 °C. Protect the Product from direct sunlight. Always refer to the packaging. Frost: If frozen or if precipitation has occurred, the Product may be used after thawing slowly at room temperature and intensive mixing.
Density	~1.07 kg/l at 25°C
pH-value	≥ 6

APPLICATION INFORMATION

Recommended Dosage

▪ 0.2–2.5 kg per 100 kg of cement (binder).
The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilized in special cases according to specific job conditions. If required consult Sika Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect.

SYSTEM INFORMATION

Compatibility

The Product can be used with all types Cements and cementitious materials. For use with other special cements, contact our SikaTechnical Services Department. The Product should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing the Product, they must be dispensed separately.

The Product can be combined and is recommended for use with other Sika products, such as:

- SikaRapid® - hardening concept for accelerated early strengths
- Sika® Stabilizer to modify the viscosity of SCC
- Sika® Separol® - demoulding agents for easy formwork removal and improved finish
- Sika® Antisol® - curing compounds for highly efficient water retention and friendly use

The Product is not compatible with admixtures from the Sikament® (Naphthalene) range.

When such complimentary admixtures are required it is important that laboratory trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant concrete. In these circumstances we recommend that you consult our Sika Technical Services Department for further advice.

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.

IMPORTANT CONSIDERATIONS

When using Sika® ViscoCrete®-7114 HE a suitable mix design has to be taken into account and local material sources shall be trialled.

Sika® ViscoCrete®-7114 HE shall not be added to dry cement.

Excessive water addition, overdosing, changes in aggregates properties, cement properties, cementitious materials properties may cause bleeding, segregation issue, workability or setting issues.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

MIXING

The Product is a liquid admixture that is added to the concrete during the mixing process. Optimal water reduction is obtained if the Product is dispensed into the concrete mix after the addition of 70–90 % of mixing water. Avoid adding the admixture to dry materials. After adding the Product, allow enough mixing time to secure a homogenous concrete. If necessary, continue mixing and add additional Product to obtain the required workability.

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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**Product Data Sheet**

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