

PRODUCT DATA SHEET

Sika® ViscoCrete®-7170

Stabilised Superplasticiser for Precast Concrete Production

PRODUCT DESCRIPTION

Sika® ViscoCrete®-7170 is a liquid high-performance superplasticiser and viscosity-modifying admixture providing improved rheology and robustness to high workability concretes. Sika® ViscoCrete®-7170 is based on the latest generation of polycarboxylate polymers.

USES

- Sika® ViscoCrete®-7170 is suitable for the production of precast concrete
- High performance concrete
- Self-compacting concrete
- Concrete requiring high early strength

CHARACTERISTICS / ADVANTAGES

- High-range water reductions resulting in higher strengths and densities
- Improved cohesion properties in highly fluid concrete or SCC
- Improved durability
- Improved early and ultimate strengths
- Optimal rheology properties for SCC production
- Reduced segregation and bleeding
- Reduced drying shrinkage
- Improved consistence retention
- Improved surface finish

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2
Tables 3.1 & 3.2

DoP 64435034, certified by Factory Production Control
Body 1029 and provided with the CE mark

PRODUCT INFORMATION

Chemical Base	Modified polycarboxylate (latest generation)
Packaging	20 L drum, 1000 L IBC
Appearance / Colour	Brown liquid
Shelf Life	12 months from date of production if stored properly in undamaged containers.
Storage Conditions	Dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost (freezing point +1°C).
Total Chloride Ion Content	<0.10% w/w (chloride free)
Equivalent Sodium Oxide	<0.60 % w/w (alkali content)
Specific gravity	1.06 kg/L

TECHNICAL INFORMATION

Specific Advice	Air Entrainment: Negligible, normally minimal increase Effect of Overdosing: Increased workability and segregation
Effect on Setting	Minimal effect

APPLICATION INFORMATION

Recommended Dosage	0.3–1.5 % by weight of cement. Dosages outside of this range should be verified by trials.
Compatibility	Sika® ViscoCrete®-7170 may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.
Dispensing	Sika® ViscoCrete®-7170 is added to the gauging water or added with it into the concrete mixer. To take advantage of the high water reduction, a wet mixing time of at least 60 seconds is recommended.

VALUE BASE

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.

USES

When using Sika® ViscoCrete®-7170 a suitable mix design has to be taken into account and local material sources shall be trialled.

Sika® ViscoCrete®-7170 shall not be added to dry cement.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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.

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.

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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