

PRODUCT DATA SHEET

Sika® ViscoCrete®-2055

HIGH PERFORMANCE SUPERPLASTICISER WITH EXTRAORDINARY SLUMP RETENTION

DESCRIPTION

Sika® ViscoCrete®-2055 is a third generation superplasticiser for concrete and mortar.

USES

Sika® ViscoCrete®-2055 is a unique multi purpose superplasticiser that is particularly suitable for the production of ready mixed concrete and precast concrete. It provides ultra high water reduction and excellent flow characteristics.

With its outstanding combination of workability time and early strength development Sika® ViscoCrete®-2055 is used for the following:

- A wide range of applications where excellent workability and early strength development are required
- Concrete with ultra high water reduction (up to 30%)
- High performance concretes
- Long slump retention
- Self Compacting Concrete (SCC)

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-2055 is a powerful superplasticiser based on advanced technology which gives the following advantages:

- High water reduction, resulting in high density, high strength and reduced permeability
- Extended workability in conjunction with subsequent fast strength development
- Excellent plasticising effect, resulting in improved flow, placing and compaction characteristics
- Reduced shrinkage during curing and reduced creep when hardened
- Provides many opportunities for cost improvement, e.g. cement reduction and more economic mix design

Sika® ViscoCrete®-2055 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

PRODUCT INFORMATION

Composition	Modified polycarboxylate
Packaging	<ul style="list-style-type: none"> ▪ 200 L drum ▪ 1 000 L tank
Appearance / Colour	Off white liquid
Shelf life	12 months from date of production
Storage conditions	Store properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost.

APPLICATION INFORMATION

Recommended Dosage	For medium workability: 0.6–0.8 % by weight of cement For concrete with high workability, very low water/cement ratio and for SCC with high slump retention: 1.0–2.0 % by weight of cement
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Compatibility

Sika® ViscoCrete®-2055 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 about specific combinations.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® ViscoCrete®-2055 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. 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.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.

IMPORTANT CONSIDERATIONS

Excessive water addition or overdosing may cause bleeding or segregation.
Frost: If frozen and/or if precipitation has occurred, Sika® ViscoCrete®-2055 may be used after thawing slowly at room temperature followed by intensive re-mixing.

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.

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

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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PRODUCT DATA SHEET
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