

# PRODUCT DATA SHEET

## Sika ViscoCrete®-335

### ACCELERATING HIGH RANGE WATER REDUCING/SUPERPLASTICISING CONCRETE ADMIXTURE

#### PRODUCT DESCRIPTION

Sika ViscoCrete®-335 is based on unique polycarboxylate polymers technologies. Sika ViscoCrete®-335 is a liquid admixture for concrete which is used as an accelerating high range water reducer or superplasticiser. The product provides fast adsorption resulting in highly efficient dispersion and potential reduction in mixing time. It meets the requirements of BS EN 934-2

#### USES

- Sika ViscoCrete®-335 is a unique product that is suitable for the production of ready mixed concrete as well as precast operations.
- Application that requires excellent workability and early strength development.
- Concrete with high water reduction to meet low w/c ratio requirements.
- High performance concrete.
- Self-compacting concrete.

#### CHARACTERISTICS / ADVANTAGES

- Quick mixing
- Ideally suited for use in SCC and flowing concretes
- High water reductions resulting in higher strengths and densities
- Reduced permeability
- Fast strength development
- Improved flow
- Reduced shrinkage and creep
- Advantages in mix cost savings
- Precast energy savings
- Consistent performance of the concrete
- Chloride free
- Extended consistence retention

#### APPROVALS / STANDARDS

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

DoP 02 13 01 01 100 0 001856 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Modified polycarboxylate
<b>Packaging</b>	1000 litre IBC
<b>Appearance / Colour</b>	Pale opaque liquid
<b>Shelf Life</b>	12 months from date of production if stored properly in undamaged containers.
<b>Storage Conditions</b>	Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
<b>Density</b>	1.08 kg/l (at +20°C)
<b>pH-Value</b>	4.5 +/- 0.5
<b>Total Chloride Ion Content</b>	< 0.10% w/w (chloride free)

## TECHNICAL INFORMATION

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### Specific Advice

**Freezing Point:** +1°C

**Air Entrainment:** Negligible, normally a minimal increase

**Effect on Setting:** Slight extension to normal setting at 0.2% dose, normal setting up to 0.4% dose and accelerated setting at higher dosages due to its chemical nature.

**Effect of Overdosing:** Increased workability and segregation

**Alkali Content:** 0.25% Maximum

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## APPLICATION INFORMATION

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### Recommended Dosage

0.2 - 0.8% by weight of cement for medium workability

1.0 - 2.0% by weight of cement for special applications such as self compacting or ultra high strength concrete.

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### Compatibility

Sika® Admixtures:

- All Sika admixtures can be considered

- Trial mixes should always be carried out to determine performance in-situ

Cements:

- All cements including replacements

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### Dispensing

Sika ViscoCrete®-335 is added to the gauging water at the plant or added on-site into the concrete mixer. A minimum of sixty seconds mixing time is required to ensure the full effect of the product performance.

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## APPLICATION INSTRUCTIONS

### Application Method / Tools

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.

### Cleaning of Tools

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

### Notes on Application / Limitations

- When using Sika ViscoCrete®-335 a suitable mix design is required and local material sources should be trialled.
- If frozen and/or if precipitation has occurred, Sika ViscoCrete®-335 may be used after thawing slowly at room temperature and after intensive mixing.
- Sika ViscoCrete®-335 should not be added to dry cement.
- Sika ViscoCrete®-335 should be added with the mixing water or introduced at the end of the mixing process.
- Before application, suitability tests must be performed.
- Support from our Technical Department 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.

## 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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