

# PRODUCT DATA SHEET

## Sika<sup>®</sup> ViscoCrete<sup>®</sup>-10 (GB)

### HIGH RANGE WATER REDUCING/SUPERPLASTICISING CONCRETE ADMIXTURE

#### PRODUCT DESCRIPTION

Sika<sup>®</sup> ViscoCrete<sup>®</sup>-10 (GB) is a liquid admixture for concrete which is used as a high-range water reducer/superplasticiser. It meets the requirements of BS EN 934-2 tables 3.1 & 3.2

#### USES

- Sika<sup>®</sup> ViscoCrete<sup>®</sup>-10 (GB) is a unique product that is suitable for the production of ready mixed concrete
- Applications that require high quality concrete
- Concrete with high water reduction to meet low w/c ratio requirements
- High performance concrete
- Self compacting concrete

#### CHARACTERISTICS / ADVANTAGES

- High-range water reductions resulting in higher strengths and densities
- Improved consistence retention
- Improved cohesion properties
- Improved early and ultimate strengths
- Improved rheology
- Improved durability
- Reduced segregation and bleeding
- Reduced drying shrinkage
- Reduced mix costs

#### APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Tables 3.1 & 3.2 DoP 00003281, 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>	20 litre drum, 200 litre drum, 1000 litre IBC and Bulk Tanker
<b>Appearance / Colour</b>	Pale Brown 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>Specific Gravity</b>	1.050 kg/l (at +20°C)
<b>pH-Value</b>	3.6 +/- 1.0
<b>Total Chloride Ion Content</b>	<0.10%

#### TECHNICAL INFORMATION

## Specific Advice

Alkali Content: <0.25%  
Freezing Point: +1°C  
Air Entrainment: Negligible  
Effect on Setting: Slightly extension to normal setting  
Effect of Overdosing: Increased workability and segregation

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.2 -1.5% by weight of cement
<b>Compatibility</b>	Sika® Admixtures: <ul style="list-style-type: none"><li>▪ Compatibility information available on request</li></ul> Cements: <ul style="list-style-type: none"><li>▪ All cement combination</li></ul>
<b>Dispensing</b>	Sika® ViscoCrete®-10 (GB) should be dispensed through suitable calibrated dosing equipment.

## 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.
- Sika® ViscoCrete®-10 (GB) should not be added to dry cement.
- Sika® ViscoCrete®-10 (GB) should be added with the mixing water.

### Notes on Application/Limitations

- When using Sika® ViscoCrete®-10 (GB) a suitable mix design is required and local material sources should be evaluated.
- Support from our Technical Department is recommended.

## FURTHER DOCUMENTS

### MECHANICAL / PHYSICAL PROPERTIES

#### Compressive Strength - Typical Data

	Control (350 kg/m <sup>3</sup> )	Sika® ViscoCrete®-10 (GB)
Dose (BWC%)	None	0.50
w/c Ratio	0.71	0.56
Slump (mm)	80	80
Air cont %	1.3	1.6
28 day Compressive Strength N/mm <sup>2</sup>	44.0	62.0

## 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 regula-

tions 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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