

## PRODUCT DATA SHEET

# Sika® ViscoCrete®-2011 PC

### High Performance Superplasticiser

#### DESCRIPTION

Sika® ViscoCrete® -2011 PC is a third generation superplasticiser for concrete and especially designed for Precast concrete with or without steam curing.

#### USES

Sika® ViscoCrete® -2011 PC is a unique superplasticiser that is particularly suitable for the production of 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® -2011 PC 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 concrete
- Very high early strength concrete

#### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® -2011 PC 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
- 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, More economic mix design, Reduced energy costs for steam cured precast elements

Sika® ViscoCrete® -2011 PC 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.

#### APPROVALS / CERTIFICATES

Complies with ASTM C494 and TIS 733 Type F

#### PRODUCT INFORMATION

<b>Composition</b>	Modified polycarboxylate
<b>Packaging</b>	200 l/ drum 1,000 l/ tote or bulk
<b>Appearance / Colour</b>	Yellowish Liquid
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +5°C and +40°C. Protect from direct sunlight and frost.
<b>Density</b>	1.030 - 1.060 kg/l (at temperature 25°C)
<b>pH-Value</b>	4.0 - 6.0 Approx.

## APPLICATION INFORMATION

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<b>Recommended dosage</b>	<ul style="list-style-type: none"><li>▪ For medium workability: 0.4 - 1.0% by weight of cement.</li><li>▪ For concrete with high workability, very low water/cement ratio.</li><li>▪ For Precast Concrete with high early strength : 1.0 - 2.0% by weight of cement.</li></ul>
<b>Compatibility</b>	Sika® ViscoCrete®-2011 PC is compatible with all types of Portland Cement, including S.R.C. type and Hydraulic Cement. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.
<b>Dispensing</b>	Sika® ViscoCrete® -2011 PC 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.
<b>Restrictions</b>	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before actual 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.

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## 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.

## 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.

## IMPORTANT CONSIDERATIONS

Excessive water addition or overdosing may cause bleeding or segregation.

## 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 re-

serves 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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