

# PRODUCT DATA SHEET

## Sika® ViscoCrete®-1250 NT

### 3<sup>RD</sup> GENERATION SUPERPLASTICIZER

#### DESCRIPTION

Sika® ViscoCrete®-1250 NT is a third generation superplasticizer for concrete and mortar. It meets the requirements for superplasticizers according to BS 5075 pt 3.

Sika® ViscoCrete®-1250 NT facilitates extreme water reduction, excellent flow properties, optimal cohesion and highest self compaction behaviour.

#### USES

Sika® ViscoCrete®-1250 NT is used for:

- production of site mixed as well as ready-mix concrete.
- concrete with extended transportation or placing time.
- self compacting concrete (S.C.C.)
- hot weather concrete
- concrete with highest water reduction (up to 30 %)
- high strength concrete C60–C200

#### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-1250 NT acts by different mechanisms. Through surface absorption and sterical separation effect on the cement particles, in parallel to the hydration process, the following properties are obtained:

- Strong self compacting behaviour, therefore suitable for the production of self compacting concrete (S.C.C.)
  - Extremely high water reduction (resulting in high density and strengths)
  - Excellent flowability (resulting in highly reduced placing- and compacting efforts)
  - Optimal cohesion
  - Improved shrinkage- and creep behaviour
  - Reduced rate of carbonation of the concrete
- Sika® ViscoCrete®-1250 NT does not contain chloride or other steel corrosion promoting ingredients. It may therefore be used without any restrictions for reinforced and prestressed concrete construction.

#### PRODUCT INFORMATION

<b>Composition</b>	Polycarboxylic polyether type polymer
<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 200 kg drum (non returnable)</li> <li>▪ 1 000 L IBC</li> </ul>
<b>Appearance / Colour</b>	Yellowish brown liquid
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	Store in unopened, undamaged original container, protected from direct sunlight and frost at temperatures between +5 °C and +35 °C
<b>Density</b>	1.08 kg/l typical
<b>pH-Value</b>	5–7

## APPLICATION INFORMATION

Recommended Dosage	Soft plastic concrete	0.25–1.0 % by weight of cementitious
	Flowing and self compacting concrete (S.C.C.)	1.0–2.5 % by weight of cementitious

## APPLICATION INSTRUCTIONS

### DISPENSING

Sika® ViscoCrete®-1250 NT is added to the gauging water or simultaneously with it poured into the concrete mixer. For optimum utilisation of the high water reduction we recommend thorough mixing at a minimal wet mixing of 60 seconds.

The addition of the remaining gauging water - to fine tune concrete consistency - may only be started after 2/3 of the wet mixing time, to avoid surplus water in the concrete.

### 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.

### 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.

#### Sika Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate, 71800 Nilai  
Negeri Sembilan D.K., Malaysia  
Phone: +606-7991762  
Fax: +606-7991980  
e-mail: info@my.sika.com  
Website: www.sika.com.my



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