

# PRODUCT DATA SHEET

## Sika® ViscoCrete®-1250

### HIGH RANGE WATER REDUCER - HWR

#### DESCRIPTION

Sika® ViscoCrete®-1250 is a third generation super-plasticiser used to produce soft plastic concrete as well as state of the art, self compacting concrete (SCC) depending on dose rate.

#### USES

Sika® ViscoCrete®-1250 is suitable for the production of the following types of concrete

- Hot weather concrete and concrete with extended transportation or placing time.
- Concrete requiring high water reduction.
- High strength concrete.
- Self-compacting concrete (SCC) or Super workable concrete.

#### CHARACTERISTICS / ADVANTAGES

When using Sika® ViscoCrete®-1250, the following concrete properties are obtained:

- High workability, flow ability and finish ability
- Extremely high water reduction can be achieved, resulting in high early strength concrete.
- Improved shrinkage and creep behaviour
- Excellent flow ability achieved, results in better placement and compaction of the concrete.
- Suitable for the production of Self Compacting Concrete and Super workable concrete.
- No added chlorides

#### APPROVALS / CERTIFICATES

Sika® ViscoCrete®-1250 will meet and exceed all requirements of AS1478.1-2000 High Range Water Reducing Admixture.

#### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of modified co-polymers.
<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ Bulk deliveries</li> <li>▪ 1000 litre IBC</li> <li>▪ 205 litre drum</li> <li>▪ 10 litre container</li> </ul>
<b>Appearance / Colour</b>	Brown liquid
<b>Shelf life</b>	Stored at temperatures between 5°C and 35°C, protected from direct sunlight, shelf life is one (1) year.
<b>Storage conditions</b>	Store at temperature between 5°C and 35°C, protected from direct sunlight .
<b>Specific Gravity</b>	1.07 g/cm <sup>3</sup>

#### APPLICATION INFORMATION

<b>Recommended Dosage</b>	Typical dosage for soft concrete production is 350 ml - 1500 ml per 100 kg of total cementitious material. For self-compacting concrete, typical dosage is 900 ml - 3000 ml per 100kg of total cementitious material.
<b>Compatibility</b>	Sika® ViscoCrete®-1250 can be used in conjunction with all Sika Concrete Admixtures, with the exclusion of Sikament NN.
<b>Dispensing</b>	Sika® ViscoCrete®-1250 is added together with the batching water. For optimum utilisation of the high range water reduction we recommend thorough mixing at a minimum wet mixing time of 60 seconds per cubic metre after the admixture addition. The addition of the slump water, to fine tune concrete consistency, should only be started after 2/3 of the wet mixing time after the admixture addition, to avoid surplus water in the concrete. Do not add to a dry mix.

## IMPORTANT CONSIDERATIONS

When using Sika® ViscoCrete®-1250 actual setting time will depend on site conditions. This should be checked and predetermined with trial mixes.

- Special mix designs are required to achieve Self Compacting Concrete (SCC)
- Not recommended for use with normal range water reducers.
- Please check compatibility when using with other admixtures.
- Do not use with naphthalene-based admixtures.
- For additional information, please contact your local Sika Representative.

## 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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 Australia Pty Limited**

ABN 12 001 342 329

aus.sika.com

Tel: 1300 22 33 48



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