

## PRODUCT DATA SHEET

# Sika® ViscoCrete®-5-500

HWR – High Range Water Reducer

### DESCRIPTION

Sika® ViscoCrete®-5-500 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 the dose rate.

### USES

Sika® ViscoCrete®-5-500 is ideal for the production of high performance concrete. It facilitates extremely high water reduction or highly flowable concrete for easy placement.

Sika® ViscoCrete®-5-500 is used for the following types of concrete:

- Precast concrete
- Concrete requiring high water reduction
- High strength concrete
- Self compacting concrete (SCC)

### PRODUCT INFORMATION

|                              |   |
|------------------------------|---|
| <b>Composition</b>           | Mixture of modified polycarboxylates  |
| <b>Packaging</b>             | Bulk deliveries<br>1000 litre IBC<br>205 litre drum<br>10 litre container   |
| <b>Shelf life</b>            | Stored at temperatures between 5°C and 35°C in unopened original containers, protected from direct sunlight and frost, shelf life is at least one (1) year.   |
| <b>Storage conditions</b>    | Store at temperature between 5°C and 35°C protected from the direct sunlight.   |
| <b>Appearance and colour</b> | Clear brown liquid  |
| <b>Specific gravity</b>      | 1.07 g/cm <sup>3</sup>  |
| <b>Recommended dosage</b>    | Typical dosage for soft concrete production is 300mls-600mls per 100kg of total cementitious material. For self compacting concrete, typical dosage is 700mls-1000mls per 100kg of total cementitious material. |

### CHARACTERISTICS / ADVANTAGES

When using Sika® ViscoCrete®-5-500, the following concrete properties are obtained :

- High workability, flowability and finishability
- Extremely high water reduction can be achieved, resulting in high early strength concrete.
- Improved shrinkage and creep behaviour can be observed.
- Excellent flow can also be achieved resulting in better placement and compaction of the concrete.
- Suitable for the production of Self Compacting Concrete or super workable concrete.

### APPROVALS / CERTIFICATES

Sika® ViscoCrete®-5-500 meets and exceeds all requirements of Australian Standard 1478.1-2000 for High Range Water Reducing Admixture (HWR).

**Dispensing**

Sika® ViscoCrete®-5-500 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.  
Do not add to a dry mix.

**Compatibility**

Sika® ViscoCrete®-5-500 can be used in conjunction with all the Sika Concrete Admixtures, except Sikament NN.

**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.

**FURTHER INFORMATION**

May slightly increase air content of concrete at normal dose.

Do not mix with naphthalene based admixtures.

**IMPORTANT CONSIDERATIONS**

When using Sika® ViscoCrete®-5-500 actual setting time will depend on site conditions. This should be checked and predetermined beforehand with trial mixes.

Special mix design is required to achieve Self Compacting Concrete (SCC).

**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.

**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.

**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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Product Data Sheet

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