

# PRODUCT DATA SHEET

## Sika® ViscoCrete®-6100 VN

### HIGH RANGE WATER REDUCER AND SET RETARDING CONCRETE ADMIXTURE

#### DESCRIPTION

Sika® ViscoCrete®-6100 VN is a 3<sup>rd</sup> generation polymer based superplasticizer with set retarding effect. Sika® ViscoCrete®-6100 VN has been formulated to comply with ASTM C-494 Type G.

#### USES

Sika® ViscoCrete®-6100 VN is suitable for the production of site mixed as well as ready-mix following types of concrete:

- Concrete with highest water reduction
- High strength/high performance concrete
- Excellent and retained workability concrete
- Flowable to self compacting concrete
- Shotcrete application wet process

#### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-6100 VN combines different modes of actions resulting in optimum dispersion of the binder and at the same time improves cohesion of concrete.

Sika® ViscoCrete®-6100 VN has the following advantages:

- Thanks to high water reduction and optimum cement dispersion, it improves shrinkage and creep behavior
- Provides an excellent workability that can be retained for up to 2 hours
- Increases early and final strengths that can allow substantial cement reduction
- Improves impermeability of concrete by reducing water/cement ratio
- Increases cohesion without segregation that facilitates pumping
- Can be used at low dosages

#### PRODUCT INFORMATION

<b>Composition</b>	Poly Carboxylate Ether (PCE)
<b>Packaging</b>	200 Lit PE Drum / 1000 Lit IBC Drum
<b>Appearance / Colour</b>	Dark Brown Liquid
<b>Shelf life</b>	12 months from date of production if stored properly in original unopened packaging
<b>Storage conditions</b>	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +30 °C
<b>Specific Gravity</b>	1.075-1.110 kg/lit
<b>pH-Value</b>	4.50–6.50
<b>Total Chloride Ion Content</b>	1.0 %

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## TECHNICAL INFORMATION

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### Concreting Guidance

**Concrete placing:** With the use of Sika® ViscoCrete®-6100 VN, concrete of highest quality is being produced, however state of the art of Concrete technology, such as mixing, placing, vibrating and curing must be respected and applied.

**Curing:** Effective measures for concrete curing must be followed. Use of Sika curing compounds to cure concrete properly is advisable.

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### Specific Advice

Sika® ViscoCrete®-6100 VN is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix. For optimum utilisation of the ultra high range water reducer we recommend a minimum wet mixing time of 60 seconds. When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

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## APPLICATION INFORMATION

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### Recommended Dosage

0.5–2.5 L per 100 kg of cement

**Typical dosage:**

For soft/plastic concrete: 0.5–1.0 L per 100 kg of cement

For SCC concrete: 1.5–2.0 L per 100 kg of cement

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### Compatibility

Sika® ViscoCrete®-6100 VN may be combined with all Sikament®, Sika® Aer, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and not pre-mixed prior its addition. Sika® ViscoCrete®-6100 VN is compatible with all Portland Cement types.

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## LIMITATIONS

Overdosing will result in increased workability and setting time of the concrete; however provided that curing is effective, ultimate concrete strength and properties will not be affected.

- Accurate dispensing equipment can be supplied by Sika Ltd (Myanmar).
- Use an appropriate concrete mixer and do not mix by hand.
- Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

**Protective measures:** Avoid prolonged contact with skin. Wash off thoroughly with soap water.

In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay.

Avoid contact with food stuff and utensils.

**Ecology/ Waste disposal:** Do not dispose of into water or soil, but according to local regulations.

**Transportation class:** Non-hazardous (according to local law)

**Toxicity:** Non-toxic

## 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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