

## PRODUCT DATA SHEET

# Sika® Stabilizer-500 VCC

### ADMIXTURE FOR CONCRETE CONTAINING AGGREGATES WITH IMPURITIES

#### PRODUCT DESCRIPTION

Sika® Stabilizer-500 VCC is a unique concrete admixture, specially formulated to improve the plastic and hardened properties of concrete containing fine aggregates with Variable Contaminant Content. Sika® Stabilizer-500 VCC can reduce the impact of deleterious substances found in both natural and manufactured sands. Sika® Stabilizer-500 VCC can help control water demands and lower cement contents whilst reducing variation in plastic properties.

#### USES

- Sika® Stabilizer-500 VCC is suitable for the production of both ready mixed and precast concrete including but not limited to:
  - Conventional concrete
  - Pumpable concrete
  - High Performance concrete
  - Self Compacting Concrete (SCC)
  - Slip-Form concrete
- Production of concrete using sands containing contaminants such as clays and other ultra-fine particles.
- Applications that require high quality concrete
- Suitable for use across a broad range of consistence classes from S2 to SF2

#### CHARACTERISTICS / ADVANTAGES

- Reduces variation in consistence control.
- Improved cohesion properties.
- Improved rheology.
- Reduces the effect of clay contamination.
- Reduces the effect of ultra-fine particles in sand (<63µm)
- Potential to reduce cement contents in problem packages.
- Potential to utilise secondary aggregate sources.
- Improved durability.
- Reduced segregation and bleeding.
- Reduced drying shrinkage.
- Reduced mix costs.

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Modified Polycarboxylate Ether blend
<b>Packaging</b>	20 Litre, 200 Litre and 1000 Litre IBC.
<b>Appearance / Colour</b>	Brown liquid
<b>Shelf Life</b>	12 months from date of production if stored properly in undamaged containers.
<b>Storage Conditions</b>	Store in sealed containers at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
<b>Density</b>	1.150

pH-Value	4.6 +/- 0.5
Total Chloride Ion Content	< 0.1% (Chloride Free)
Equivalent Sodium Oxide	<0.10%

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	Dosage will vary depending upon specific local materials but is expected to be in the range 0.3 to 1% by weight of cement.
<b>Compatibility</b>	Sika® Stabilizer-500 VCC is compatible with other Sika admixtures and all common cement types. For specific compatibility advice, please contact our Technical Services department.
<b>Dispensing</b>	Sika® Stabilizer-500 VCC should be dispensed through suitable calibrated dosing equipment.
<b>Restrictions</b>	<ul style="list-style-type: none"> <li>▪ When using Sika® Stabilizer-500 VCC a suitable mix design has to be taken into account and local material sources shall be trialled.</li> <li>▪ Sika® Stabilizer-500 VCC shall not be added to dry cement.</li> <li>▪ Excessive water addition or overdosing may cause bleeding or segregation.</li> <li>▪ Support from our Technical Service Department is recommended.</li> </ul>

## APPLICATION INSTRUCTIONS

- The standard rules of good concreting practice, concerning production and placing, are to be followed.
- Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.
- Fresh concrete must be cured properly and curing applied as soon as possible.

## VALUE BASE

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.

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## 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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