

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

PRODUCT INFORMATION

Chemical Base	Modified Polycarboxylate Ether blend
Packaging	20 Litre, 200 Litre and 1000 Litre IBC.
Shelf Life	12 months from date of production if stored properly in undamaged containers.
Storage Conditions	Store in sealed containers at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
Appearance / Colour	Brown liquid
Specific gravity	1.15 kg/L

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 (<63 µm)
- 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.

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Table 2 DoC 44599661, certified by Factory Production Control Body 0120 and provided with the UKCA mark

Total Chloride Ion Content	<0.1 % (chloride free)
Equivalent Sodium Oxide	<0.60 % (alkali content)

TECHNICAL INFORMATION

Specific Advice	Batching procedure is critical to gain the most benefit from Sika® Stabilizer-500 VCC. It must be incorporated early in the mixing process and allowed to adsorb onto the clay/fine particles before the addition of any subsequent admixtures. Addition of the conventional admixture at the same time as the Sika® Stabilizer-500 VCC will lead to reduced benefits.
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APPLICATION INFORMATION

Recommended Dosage	Dosage will vary depending upon specific local materials but is expected to be in the range 0.3 to 1.0 % by weight of cement.
Dispensing	Sika® Stabilizer-500 VCC should be dispensed through suitable calibrated dosing equipment.
Compatibility	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.

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.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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.

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.

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 LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited



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