

PRODUCT DATA SHEET

Sika® ViscoCrete® SC-360

SUPERPLASTIZER FOR DEMANDING SHOTCRETE



DESCRIPTION

Sika® ViscoCrete® SC-360 is a superplasticizing admixture especially developed for shotcrete, exhibiting high workability maintenance along with improved rheology and pumpability

USES

Sika® ViscoCrete® SC-360 is used for shotcrete production via the wet spraying method, in combination with Sigunit® accelerators. Shotcrete produced with Sika® ViscoCrete® SC-360 exhibits improved consistency, prolonged workability and better compaction when sprayed, which results in high actual strengths in the cores and reduction of pump pressure and wear down. The combination of Sika® ViscoCrete® SC-360 with Sika® Sigunit® accelerators increases the early strengths of shotcrete.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® SC-360 improves the workability maintenance of shotcrete and enables the reduction of the W/C ratio. It highly improves the pumpability and the rheological properties of shotcrete. Depending on its dosage, the fresh concrete remains stable for a particular time period, maintaining its workability. The stabilized concrete can be applied then by using a Sika® Sigunit® accelerator, without loss of its quality. The retardation and its maintenance are dependant in all cases by the following parameters:

- Fresh concrete temperature
- Ambient temperature
- W/C ratio
- Cement type
- Quantity of cement in the mix
- Cement's age

In all cases, preliminary tests should be conducted. Sika® ViscoCrete® SC-360 does not contain chlorides or any other components that contribute to the steel's reinforcement.

APPROVALS / CERTIFICATES

Air entraining admixture (Table 5) according to EN 934.02:2009+A1:2012, Declaration of Performance 61362462, and provided with the CE-mark.

PRODUCT INFORMATION

Chemical base	Aqueous solution of modified polycarboxylate polymers
Packaging	IBC, 210 kg drums, 20 kg containers. Bulk supply on demand.
Appearance / Colour	Liquid, yellow
Shelf life	8 months from date of production
Storage conditions	Store properly in undamaged, unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Density	~1.05 Kg/l (at +20°C)
pH-Value	3.5 - 5.5 (at +20°C)
Total Chloride Ion Content	Free (EN 934.01)

TECHNICAL INFORMATION

Concreting Guidance	The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.
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APPLICATION INFORMATION

Recommended Dosage	Depending on the required workability of concrete and its maintenance: 0.3 – 1.8 % by weight of cement
Compatibility	<p>Sika® ViscoCrete® SC-360 can be combined with the following Sika products:</p> <ul style="list-style-type: none"> - Sika® Sigunit® shotcrete accelerators series - Plastiment® series - SikaRapid®-2 - Sika®-1+ / Sika® WT-200 P - Sika® Ferrogard®-901 S - Sika® Visco I-100 - Sikafume® HR-E / Sikacrete®-AR - Sika® Antifreeze <p>Trials are recommended before combining products.</p>
Dispensing	Sika® ViscoCrete® SC-360 is added to the fresh concrete with the gauging water at the plant into the concrete mixer. Always take into account the water reduction that the superplasticizer can offer. The minimum mixing time should be 1min/m ³ .
Restrictions	<ul style="list-style-type: none"> ▪ Sika® ViscoCrete® SC-360 is a product that should be used in civil work constructions and in tunneling projects. ▪ When using Sika® ViscoCrete® SC-360 a suitable mix design has been taken into account and local material sources should be tested. ▪ Sika® ViscoCrete® SC-360 should not be added to dry cement. ▪ Sika® ViscoCrete® SC-360 introduces air into the concrete. The final air content should be measured in the final concrete mix. ▪ Before application, suitability tests must be performed.

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 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.

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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