

PRODUCT DATA SHEET

Sika® ViscoCrete®-5021 TH AG

HIGH PERFORMANCE SUPERPLASTICISER FOR PRECAST AND READYMIX

DESCRIPTION

Sika® ViscoCrete®-5021 TH AG is a latest generation superplasticizer/ high range water reducer based on polycarboxylate polymers developed for use in Precast and Readymix applications formulated to impart exceptional rheological properties to fresh concrete to improve pumping, placing and finishing while at the same time enhancing early concrete strength.

USES

Sika® ViscoCrete®-5021 TH AG is based on low viscosity concrete concept. It is recommended for the production of Precast and Readymix.

FEATURES

Sika® ViscoCrete®-5021 TH AG is base on innovative patented polymer chemistry. Its action differs from traditional superplasticizers to the extent of adsorption of polymers on cementitious particles that provides a flexible chemical bond which does not impede concrete flow thus improving rheological behavior.

- High early strength and resistance to segregation.
- Improved pumping ability.
- Good compatibility with all types of cement and mineral additions.
- Superior finishing, floating and smoothing.

CERTIFICATES AND TEST REPORTS

Complies with ASTM C494 Type F & G. EN 934 3.2.3 & 3.2.11

PRODUCT INFORMATION

Packaging	200 L. drum 1000 L. IBC
Shelf life	12 months from the date of production if stored properly in undamaged, original and sealed packaging.
Storage conditions	Store in dry conditions, protected from direct sunlight at temperature between +5°C and +40°C
Appearance and colour	Light Brownish Liquid
Density	1.035 - 1.055 kg/L at 25°C
pH-Value	5.5 - 7.5

APPLICATION INFORMATION

Recommended dosage	0.5% - 3.0% by weight of cementitious material. Exact dosage rates are dependent on the type of effect sought, quality of cement and aggregates, w/c ratio and ambient temperature. Therefore, in many cases it is advisable to carry out trial mixes.
Dispensing	Sika® ViscoCrete®-5021 TH AG can be added separately to the freshly mixed concrete or directly to the mixing water prior to its addition to the aggregates. When added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.
Compatibility	Sika® ViscoCrete®-5021 TH AG may be combined with many other Sika products. Always conduct trials before combining products in specific mixes. Contact our Technical Service Department for information and advice about any specific combinations.

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.

IMPORTANT CONSIDERATIONS

Sika® ViscoCrete®-5021 TH AG suitable mix design has to be taken into local material sources shall be trialled. Sika® ViscoCrete®-5021 TH AG shall not be added to dry cement. Excessive water addition or overdosing may cause bleeding or segregation.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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.

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