

PRODUCT DATA SHEET

Sika® ViscoCrete®-3012 Plus

Multi-purpose Superplasticizer / High Range Water-Reducing Admixture

DESCRIPTION

Sika® ViscoCrete® 3012 Plus is a new generation, non-chlorinated, based on Polycarboxylate copolymer superplasticizer / high-range water-reducing admixture.

USES

Sika® ViscoCrete® 3012 Plus is designed for use in both ready mix and precast concrete application. It is used for concrete that need to be transported over long distance or with extended application time, high plasticity and early strength achievement. Sika® ViscoCrete® 3012 Plus is added for the following concrete application:

- Concrete that require high water reduction up to 35 %
- Plastic to fluid concrete.
- High strength concrete applications
- Concrete with extended transportation and workability time. Up to 3hours or more workability time possible depending on the dosage.
- Concrete with air entraining
- Concrete produced with very reactive cements
- Precast application that require longer time during casting.

FEATURES

Sika® ViscoCrete® 3012 Plus works based on a mechanism of both electrostatic dispersion and steric repulsion effects Thus, solid particles can be effectively dispersed and a high level of fluidity can be reached with less water.As a result, Sika® ViscoCrete® 3012 Plus can provide higher workability time and stability than conventional dispersants

- Keeps workability for extended time Slump retention without additional retarder and subsequent fast strength development
- High water reduction
- high impermeability effect
- Better creeps and anti-shrinkage behaviour
- Enhance better concrete compaction resulting in waterproofing effect
- Consistent slump flow and smoothness of the concrete over two hours
- Excellent plasticising effects, resulting in improved flow, placing and compaction characteristics
- Controlled retarding properties

Sika® ViscoCrete® 3012 Plus does not contain chlorides or any other materials which promote the corrosion of steel reinforcement. It is therefore suitable for reinforced and pre-stressed concrete

PRODUCT INFORMATION

Packaging	5Kg and 20Kg in Canisters, 200Kg in Drum, 1050Kg in IBC, Bulk deliveries
Shelf life	12 months minimum if stored properly in original unopened packaging
Storage conditions	In a dry area between 5°C and 35°C. Protect from direct sunlight, frost and contamination
Colour	Pale yellow/Light Brown Liquid
Appearance and colour	Pale yellow/Light Brown Liquid

Density	1.070 kg/l (at 20oC) ± 0.01
Solid content by mass	21.95 ± 1.0 %
pH-Value	5.0±1
Concreting guidance	The standard rules of good concreting practice must be followed when using Sika® Viscocrete® 3012 Plus in concrete. Refer to relevant standards.
Compatibility	Sika® ViscoCrete® 3012 Plus may be combined with many other Sika Products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for Clarification and advice about any specific combinations. Please consult our Technical Services Department for information with regards to any special usage
Recommended dosage	0.8 - 2.5 % by weight of cement (binder)
Dispensing	Sika® ViscoCrete® 3012 Plus can be added to the mixing water prior to its addition to the dry mix or directly to the freshly mixed concrete (the plasticizing effect is more Pronounced). Never add Sika® ViscoCrete® 3012 Plus directly to dry cement or aggregates (Efficiency reduction). Sika® ViscoCrete® 3012 Plus can be used with other Sika admixtures provided that, preliminary testing is done to ascertain compatibility. Allow enough time for the concrete to mix thoroughly.

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.

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

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 exact product data and uses.

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. The Product Data Sheet can be obtained from aze.sika.com website or upon on a request from the e-mail address info@az.sika.com.

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