BUILDING TRUST

PRODUCT DATA SHEET

Sika® ViscoCrete®-3115 N

Concrete Admixture for High Flow / Self-Compacting Concrete

DESCRIPTION

Sika® ViscoCrete®-3115 N is a third generation super-plasticiser for concrete and mortar. It is particularly developed for the production of high flow concrete with exceptional flow retention properties.

USES

Sika® ViscoCrete®-3115 N facilitates extreme water reduction, excellent flowability with optimal cohesion and strong self-compacting behaviour.
Sika® ViscoCrete®-3115 N is used for the following types of concrete :

- High flow concrete
- Self-compacting concrete (S.C.C.)
- Concrete with very high water reduction (up to 30%)
- High strength concrete
- Watertight concrete
- Pre-cast concrete

The combination of high water reduction , excellent flowability and high early strength provides clear benefits in the above mentioned applications.

FEATURES

Sika® ViscoCrete®-3115 N acts by surface adsorption on the cement particles producing a sterical separation effects. Concrete produced with Sika® ViscoCrete®-3115 N exhibits the following properties :

- Excellent flowability (resulting in highly reduced placing and compacting efforts)
- Strong self-compacting behaviour
- Extremely high water reduction (resulting in high density and strengths)
- Improved shrinkage and creep behaviour
- Increased carbonation resistance of the concrete
- Improved finish

Sika® ViscoCrete®-3115 N does not contain chlorides or other ingredients which promotes steel corrosion. Therefore, it may used without restriction for reinforced and pre-stressed concrete construction.
Sika® ViscoCrete®-3115 N gives the concrete extended workability and depending on the mix design and the quality of materials used, self-compacting properties can be maintained for more than 1 hour at 30 °C.

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylate copolymers
Packaging	5 L jerrycan, 20 L jerrycan, 200 L drum, and 1000 L tanks
Appearance and colour	Liquid / Light yellowish
Shelf life	12 months from date of production when stored in original unopened packaging
Storage conditions	Store in dry condition at temperature between +10 °C and +35 °C. Protect from direct sunlight and frost.
Total chloride ion content	< 0.1 % w/w

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.

APPLICATION INFORMATION

Recommended dosage	For soft plastic concrete For flowing and self compacting concrete (S.C.C.)	0.3 – 0.8 % by weight of binder 0.8 – 2.0 % by weight of binder
Compatibility	Sika® ViscoCrete®-3115 N may be combined with the following products: ▪ Plastiment® P121R ▪ Plastiment® VZ ▪ Sika® Fume ▪ SikaFibre® Do not use viscocrete / viscoflow series combined with sikament series. To produce flowing and / or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required. Please consult to our Technical Service Department.	

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

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

DISPENSING

Sika® ViscoCrete®-3115 N is added to the gauging water or simultaneously poured with it into the concrete mixer. For optimum utilisation of its high water reduction property, it is recommended to thoroughly mix the concrete at a minimal wet mixing time of 5 minutes.
The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time, to avoid surplus water in the concrete.

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 for the product concerned, copies of which will be supplied on request.

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