

PRODUCT DATA SHEET

Sika® ViscoCrete®-1200 NT MY

3rd generation superplasticizer

DESCRIPTION

Sika® ViscoCrete®-1200 NT MY is a third generation superplasticizer for concrete and mortar.

USES

Sika® ViscoCrete®-1200 NT MY is suitable for the production of site mixed as well as ready-mix concrete. It is compatible when used with cement replacements, PFA, GGBS and microsilica.

Sika® ViscoCrete®-1200 NT MY is used for concrete with extended transportation - or placing time.

Sika® ViscoCrete®-1200 NT MY facilitates extreme water reduction, excellent flow properties, optimal cohesion and highest self compaction behaviour.

Sika® ViscoCrete®-1200 NT MY is used for the following types of concrete:

- Self compacting concrete (S.C.C.)
- Hot weather concrete and concrete with extended transportation - or placing time
- Concrete with highest water reduction (up to 30 %)
- High strength concrete C60 – C100+

High water reduction and excellent flowability have a positive influence on the above mentioned applications.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-1200 NT MY acts by different mechanisms. Through surface absorption and sterical separation effect on the cement particles, in parallel to the hydration process, the following properties are obtained:

- Strong self compacting behaviour, therefore suitable for the production of self compacting concrete (S.C.C.)
- Extremely high water reduction (resulting in high density and strengths)
- Excellent flowability (resulting in highly reduced placing- and compacting efforts)
- Improved shrinkage- and creep behaviour
- Reduced rate of carbonation of the concrete

Sika® ViscoCrete®-1200 NT MY does not contain chloride or other steel corrosion promoting ingredients. It may therefore be used without any restrictions for reinforced- and prestressed- concrete construction.

PRODUCT INFORMATION

Composition	Polycarboxylic polyether type polymer
Packaging	200 Lit PE Drum / 1000 Lit IBC Tank
Shelf life	12 months from date of production
Storage conditions	Store in unopened, undamaged original container, protected from direct sunlight.
Appearance and colour	Light Brown liquid
Density	1.08 ± 0.02 kg / liter
pH-Value	~3.5

APPLICATION INFORMATION

Recommended dosage	For soft plastic concrete	0.25–1.0 % by weight of cementitious
	For flowing and self compacting concrete (S.C.C.)	1.0–2.5 % by weight of cementitious
Compatibility	Sika® ViscoCrete®-1200 NT MY may be combined with the following Sika products: SikaPump®, SikaRapid®, Sika® FerroGard®-901 MY, SikaFume®. Pre-trials are recommended if combinations with the above products are being made. Please consult our technical service.	

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.

LIMITATIONS

With the use of Sika® ViscoCrete®-1200 NT MY concrete of highest quality is being produced. The standard rules of good concreting practice (production as well as placing) must also be observed with Sika® ViscoCrete®-1200 NT MY concrete. Fresh concrete must be cured properly.

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®-1200 NT MY is added to the gauging water or simultaneously with it poured into the concrete mixer. For optimum utilisation of the high water reduction we recommend thorough mixing at a minimal wet mixing of 60 seconds. The addition of the remaining gauging water - to fine tune concrete consistency - may only be started after 2/3 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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