

PRODUCT DATA SHEET

Sika® ViscoCrete®-1100 NT HK

High Range Water-Reducing/ Superplasticizing concrete admixture

DESCRIPTION

Sika® ViscoCrete®-1100 NT HK is a high-range water reducing/superplasticizing concrete admixture.

USES

Sika® ViscoCrete®-1100 NT HK is suitable for the production of site mixed as well as ready-mix concrete. Sika® ViscoCrete®-1100 NT HK is used for concrete with extended transportation or placing time. Sika® ViscoCrete®-1100 NT HK facilitates high water reduction and good self compaction behaviour. Sika® ViscoCrete®-1100 NT HK is mainly 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 requires high water reduction rate
- High strength concrete
- High water reduction and good flowability have a positive influence on the above mentioned applications

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-1100 NT HK 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:

- Suitable for the production of self compacting concrete (S.C.C)
- High water reduction (resulting in high density and strengths)
- Good flowability (resulting in highly reduced placing and compacting efforts)
- Improved shrinkage and creep behaviour
- Reduced rate of carbonation of the concrete

Sika® ViscoCrete®-1100 NT HK does not contain chloride or other steel corrosion promoting ingredients. It may therefore be used without any restriction for reinforced and prestressed concrete construction.

APPROVALS / STANDARDS

It complies with BS 5075 and BS EN 934.

PRODUCT INFORMATION

Chemical Base	Polycarboxylic polyether type polymer
Packaging	200 Litre / drum 1000 Litre / tank Bulk supply on demand
Appearance / Colour	Yellowish brown liquid
Shelf Life	12 months from date of production
Storage Conditions	Store properly in undamaged and unopened original sealed packaging in cool and dry conditions. Protect from direct sunlight and frost.
Specific gravity	1.05 ± 0.02 kg/litre

APPLICATION INFORMATION

Recommended Dosage	Up to 3.5% by weight of total cementitious content depends on different type of application. It is advisable to carry out trial mixes to establish the exact dosage rate required. Effects of overdosing and underdosing: Significant overdosage will result in increased workability and setting time of the concrete. Underdosage will result in reduced workability (more difficult placing) and shorter setting times (reduced workable lives). However, provided the concrete is cured effectively, ultimate strength and properties will not be affected.
Compatibility	Sika® ViscoCrete®-1100 NT HK is compatible with all types of cementitious products. Sika® ViscoCrete®-1100 NT HK is compatible in concrete with all Sika's admixture types currently available, but must be added separately to the mix and not premixed prior.
Dispensing	Sika® ViscoCrete®-1100 NT HK is added to the gauging water or simultaneously with it poured into the concrete mixer. For optimum utilization of the high water reduction we recommended thorough mixing until homogeneous.

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.

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 (MSDS) 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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