BUILDING TRUST

PRODUCT DATA SHEET

Sika® ViscoCrete®-58 HT-PK

High Range Water Reducing, Superplasticizer & Slump Retaining Admixture

DESCRIPTION

Sika® ViscoCrete®-58 HT-PK is a high range water reducing, slump retaining and super plasticizing admixture for Concrete & Mortar utilizing Sika® ViscoCrete®-58 HT-PK polycarboxylate polymer technology (3rd Generation).

USES

Sika® ViscoCrete®-58 HT-PK is mainly used for the following applications:

- For all Piling application including C.F.A.
- Concrete Containing GGBS, Micro Silica, Fly ash, Etc.
- Concrete in hot & windy weather with extended transportation and workability requirements.
- Production of Ready Mixed Concrete, High performance Concrete.
- Impermeable & dense Concrete with smooth sur-face, Watertight mix design proportion must be considered.
- Production of Self-compacting Concrete (SCC), SCC mix design proportion must be considered.
- Production of complex & fine elements such as Slabs, Foundations, Walls, Beams & Columns even through congested reinforcement

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-58 HT-PK is a powerful superplasticizer which acts through several different mechanisms including surface adsorption and sterically effects separating the cementitious binder particles. The following advantages properties are achieved:

- High water reduction, resulting in high density, high strength, and reduced permeability
- Superior plasticizing effect, resulting in improved flow, placing and compaction characteristics
- Reduced shrinkage during curing and reduced creep when hardened.
- Chloride Free; thus, no corrosion effect on steel.
- Reduced rate of carbonation of the Concrete.
- NO need for vibration, thus NO noise pollution.
- Suitable for Summer conditions & pumpability, thanks to its long-time consistency

APPROVALS / STANDARDS

Sika® ViscoCrete®-58 HT-PK meets the requirements of ASTM C-494 Types G.

PRODUCT INFORMATION

Chemical Base	Aqueous solution of modified polycarboxylates
Packaging	05 ltr jerry can 20 ltr plastic can 200 ltr drum 1000 ltr IBC Bulk supply in tanker is possible on demand
Appearance / Colour	Light - Dark brown liquid

Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage Conditions	In dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight. It requires recirculation when held in storage for extended periods.
pH-Value	≥ 4
Total Chloride Ion Content	Nil (EN 934-2)
Specific gravity	1.110 ± 0.03

TECHNICAL INFORMATION

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

APPLICATION INFORMATION

Recommended Dosage	Recommended dosage for concrete: ▪ For plastic Concrete (0.2 - 0.4 %) by weight of Binder ▪ For Flow & Self Compacting Concrete (0.3 - 1.5 %) by weight of Binder ▪ Optimum dosage should be determined by site trials. When adjusting the consistency, high water reduction property of the admixture must be taken in consideration; excessive water addition must be prevented.
Compatibility	Sika® ViscoCrete®-58 HT-PK can be used in conjunction with: ▪ SikaFiber® ▪ SikaPlastoCret®-N ▪ SikaAntiFreeze® ▪ SikaRetarder® ▪ SikaRapid® ▪ SikaAER® All admixtures must be added separately. Trials are always recommended before combining products. For additional information, please contact Sika technical personnel.
Dispensing	Sika® ViscoCrete®-58 HT-PK is added to the gauging water or added with it into the concrete mixer. To take advantage of the high water reduction, a wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 2 mins. per cubic meter after the admixture addition is recommended. Sika® ViscoCrete®-58 HT-PK shall not be added to dry cement.

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.

FURTHER DOCUMENTS

Over dosage effect
An over dosage of Sika® ViscoCrete®-58 HT-PK with water excess will cause the Bleeding or Segregation.

LIMITATIONS

When using Sika® ViscoCrete®-58 HT-PK the following points should be taken in consideration:

- A suitable mix design must be considered, and local material sources shall be trialed.
- Do not use with naphthalene-based admixtures.

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.

CLEANING OF TOOLS

Clean all equipment and tools with water immediately after use.

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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