BUILDING TRUST

PRODUCT DATA SHEET

Sika® ViscoCrete®-3288 PK

High Range Water Reducer And Superplasticizer For High Flow And Self-Consolidated Concrete

DESCRIPTION

Sika® ViscoCrete®-3288 PK is a blended polycarboxylate based superplasticizer developed particularly for use in concrete to give extended slump retention and high strength development of normal grade concrete mixes. Sika® ViscoCrete®-3288 PK is suitable for use in concrete mixes incorporating pozzolanic materials such as Natural, GGBS, PFA and micro silica.

USES

- Production of site mixed
- During hot weather production of concrete with extended transportation or placing times
- Concrete with low water / cement ratio
- Concrete placement in congested steel reinforcement
- Self-compacting concrete
- Slim elements requiring a high standard of surface finish
- High performance / high strength concrete
- Long Distance and slump retention

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-3288 PK acts by surface absorption on the cement particles producing steric hindrance as well as electrostatic repulsion between cement particles which results in higher dispersion, flow, and retention. Sika® ViscoCrete®-3288 PK provides the following beneficial properties:

- Powerful plasticizing action
- Production of workable concrete at low w/p ratio
- Improved shrinkage and creep characteristics
- Excellent flowability resulting in minimal placing and compacting efforts
- Slower rate of carbonation ingress
- Cost effective, structurally economic
- Higher ultimate strengths allow greater flexibility for engineers to design
- Excellent results for watertight concrete specially for Dams and Hydraulic Structures
- Reduces surface defects so improving aesthetic appearance.
- Durable concrete
- Does not contain chlorides or other steel corrosion promoting ingredients
- Suitability for summer conditions and pumpability
- Long time consistency

APPROVALS / STANDARDS

Sika® ViscoCrete®-3288 PK follows the requirements of ASTM C494; Type G and EN 934-2

PRODUCT INFORMATION

Chemical Base	Aqueous solution of modified polycarboxylates, co-polymers
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	Dark Brown Liquid
Shelf Life	12 months minimum from production date if stored properly in original unopened packaging
Storage Conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost.
pH-Value	≥ 4
Total Chloride Ion Content	Nil (EN 934-2)
Specific gravity	1.14 ± 0.03

TECHNICAL INFORMATION

Concreting Guidance	The standard rules of good concreting practice for production and placing must be observed when using Sika® ViscoCrete®-3288 PK in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.

APPLICATION INFORMATION

Recommended Dosage	0.2 – 1.5 % by weight of binder. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	Sika® ViscoCrete®-3288 PK may be combined with all types of Portland cement (OPC, LA and SRC), concretes containing pozzolanic materials such as, Natural, GGBS, PFA, micro-silica and the following Sika products: ▪ SikaPump® ▪ Sika® FerroGard®-901 ▪ SikaFume® ▪ SikaFiber® ▪ Sika Aer® ▪ Sika® Stabilizer ▪ Sika®-1 WT We recommend to perform trial mixes to establish the required performance when combining Sika® ViscoCrete®-3288 PK with the above products or other admixtures. Please consult our Sika Technical Department.
Dispensing	Sika® ViscoCrete®-3288 PK is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add Sika® ViscoCrete®-3288 PK directly to the dry mix. For optimum utilization of its high-water reduction property we recommend thorough mixing at a minimal wet mixing time of 60

seconds. 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.

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.

LIMITATIONS

When using Sika® ViscoCrete®-3288 PK a mix design must be selected for the local material sources used and trial mixes performed to verify suitability.
If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.
Sika® ViscoCrete®-3288 PK should not be added to dry cement.
Before pouring, suitability tests on the fresh concrete must be carried out. Due to the extended workability take special care that formwork is properly installed and secured.
Set retardation may occur at dosages greater than 1.0% with some binders and if the setting time of the concrete is extended its properties may not be affected if cured properly.
When accidental overdosage occurs bleeding and segregation of the concrete and retardation of initial set will be observed.
Sika® ViscoCrete® products are not compatible with admixtures based on sulfonated naphthalene or melamine.

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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