

PRODUCT DATA SHEET

Sika® ViscoCrete®-3110 star PK

Concrete Admixture for High Flow/Self-Consolidated Concrete

DESCRIPTION

Sika® ViscoCrete®-3110 star PK is a polycarboxylate based superplasticizer developed particularly for use in ready mixed concrete to give extended slump retention and high strength development of normal grade concrete mixes. Sika® ViscoCrete®-3110 star PK is suitable for use in concrete mixes incorporating pozzolanic materials such as GGBS, PFA and microsilica. Suitable for use in hot and tropical climatic conditions.

USES

- Production of site mixed and ready-mix concrete.
- 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.

CHARACTERISTICS / ADVANTAGES

- Sika® ViscoCrete®-3110 star 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®-3110 star PK provides the following beneficial properties:
 - Powerful plasticising action.
 - Production of workable concrete at low W/P ratio.
 - Improved shrinkage and creep characteristics.
 - Excellent flowability resulting in minimal placing and compacting effort.
 - Slower rate of carbonation ingress.
 - Cost effective, structurally economic.
 - Higher ultimate strengths allows greater flexibility for engineers to design.
 - Reduces surface defects so improving aesthetic appearance.
 - Does not contain chlorides or other steel corrosion promoting ingredients.

APPROVALS / STANDARDS

Following results are based on ASTM C494 Type G.

PRODUCT INFORMATION

Chemical Base	Aqueous solution of modified Polycarboxylate 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	Brown Liquid.
Shelf Life	12 months minimum from production date if stored properly in original unopened packaging.
Storage Conditions	The product must be stored properly in undamaged, unopened original

sealed packaging in dry conditions at temperatures between +5° C and +35° C. Protect from direct sunlight and frost.

pH-Value	≥ 4
Total Chloride Ion Content	Nil (EN 934-2)
Specific gravity	1.097 ± 0.02

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

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.

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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Sika® ViscoCrete®-3110 star PK
January 2026, Version 01.01
021301011000004624

SikaViscoCrete-3110starPK-en-PK-(01-2026)-1-1.pdf