BUILDING TRUST

PRODUCT DATA SHEET

Sika® ViscoCrete®-10

High Range Water Reducing/Superplasticising Concrete Admixture

PRODUCT DESCRIPTION

Sika® ViscoCrete®-10 is a liquid admixture for concrete which is used as a high-range water reducer/super-plasticiser. It meets the requirements of IS EN 934-2 tables 3.1 & 3.2.

USES

- Sika® ViscoCrete®-10 is a unique product that is suitable for the production of ready mixed concrete
- Applications that require high quality concrete
- Concrete with high water reduction to meet low w/c ratio requirements
- High performance concrete
- Self compacting concrete

CHARACTERISTICS / ADVANTAGES

- High-range water reductions resulting in higher strengths and densities
- Improved consistence retention
- Improved cohesion properties
- Improved early and ultimate strengths
- Improved rheology
- Improved durability
- Reduced segregation and bleeding
- Reduced drying shrinkage
- Reduced mix costs

APPROVALS / STANDARDS

Conforms to the requirements of IS EN 934-2 Tables 3.1 & 3.2
DoP 49496, certified by Factory Production Control Body 1029.

PRODUCT INFORMATION

Chemical Base	Modified polycarboxylate
Packaging	25 litre drum, 200 litre drum, 1000 litre IBC and Bulk Tanker
Appearance / Colour	Straw liquid
Shelf Life	12 months from date of production if stored properly in undamaged containers, in dry conditions.
Storage Conditions	In dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
Density	1.05 kg/l (at +20°C)
pH-Value	3 ± 1.0
Total Chloride Ion Content	≤ 0.1 M.-%
Equivalent Sodium Oxide	< 0.40 %

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	0.2 -1.5% by weight of cement
Compatibility	Sika®Admixtures: ▪ Compatibility information available on request Cements: ▪ All cement combination

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

MECHANICAL / PHYSICAL PROPERTIES
Compressive Strength - Typical Data

	Control (350 kg/m3)	Sika® ViscoCrete®-10
Dose (BWC%)	None	0.50
w/c Ratio	0.71	0.56
Slump (mm)	80	80
Air cont %	1.3	1.6
28 day Compressive Strength N/mm2	44.0	62.0

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

REGULATION (EC) NO 1907/2006 - REACH

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

APPLICATION METHOD / TOOLS

▪The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.
▪Sika® ViscoCrete®-10 should not be added to dry cement.
▪Sika® ViscoCrete®-10 should be added with the mixing water.
Notes on Application/Limitations
▪ When using Sika® ViscoCrete®-10 a suitable mix design is required and local material sources should be evaluated.
▪Support from our Technical Department is recommended.

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 the 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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