BUILDING TRUST

PRODUCT DATA SHEET

Sika® ViscoCrete®-8913

Superplasticizer with enhanced rheological performance

DESCRIPTION

Sika® ViscoCrete®-8913 is a chloride free high-range water-reducing superplasticizer. It has been specially formulated for ready-mix concrete, providing excellent rheological properties.
This admixture significantly improves the placing, pumping, and finishing of concretes, making it particularly suitable for demanding construction application. Even at low water cement ratio, the fresh concrete remains cohesive with no segregation, result in high early strength and excellent long-term performance.

USES

Sika® ViscoCrete®-8913 is particularly advantageous to producing high-quality ready-mix concrete where high water reduction is required such as:
- Applications requiring combination with retention-type admixtures for prolonged workability
- Concrete mixes with low water/cement ratios without excessive stickiness, especially beneficial for areas with dense reinforcement

It is suitable for use in the following applications:
- Ready-mix and site mix concrete
- High performance and ultra-high strength concrete
- Architectural concrete requires excellent finish quality
- Self-compacting and rheoplastic concrete
- Concrete requiring superior pumping characteristics
- Concrete with high levels of supplementary cementitious materials (SCMs) for low environmental impact
- Reduction of concrete waste through enhanced workability and finish ability

CHARACTERISTICS / ADVANTAGES

In the fresh concrete state:
- Improved rheology with reduced viscosity at constant water/cement ratio (W/C).
- Improved pumping performance with lower pressure requirements and extended pumping distances.
- Better response to vibration and enhanced ease of placement.
- Superior workability for finishing, floating, and smoothing operations.
- Excellent flowability and flexibility, particularly suited for self-compacting concrete.
- Allows further reduction of the W/C ratio without increasing viscosity.
- Opens new possibilities for technical and economic optimization of concrete mix designs (binder selection, aggregate choice, and mineral additions).
- Provides high strength with excellent resistance to segregation.
- Demonstrates good compatibility with various cements and supplementary cementitious materials (SCMs).

In the hardened concrete state:
- Improved early and long-term compressive strength.
- Enhanced surface quality and superior finish appearance.
- Increased mechanical strength as a result of reduced W/C ratio.
- Lower porosity and permeability, improving concrete density.
- Reduced shrinkage and cracking risk, contributing to dimensional stability.
- Significantly enhanced durability.

PRODUCT INFORMATION

Packaging	▪ 1000 L IBC tank ▪ Bulk delivery
Shelf Life	12 months from date of production
Storage Conditions	Store at a temperature above 0 °C and in tightly sealed original containers. If frozen, thaw it and completely reconstitute by mild agitation. Do not use compressed air.

APPLICATION INFORMATION

Recommended Dosage	The normally recommended dosage rate is 200 ml to 1500 ml per 100 kg of binder. Other dosages may be used in special cases according to specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement. If required consult our Technical Services Department for advice. If required consult our Technical Services Department for advice.
Dispensing	Sika® ViscoCrete®-8913 is a ready-to-use admixture that is added to the concrete at the time of batching. The maximum effect is achieved when Sika® ViscoCrete®-8913 is added after the addition of 50 % to 70 % of water. Sika® ViscoCrete®-8913 must not be added to the dry materials. A separate dispenser and feed line must be used.

SYSTEM INFORMATION

Compatibility	Sika® ViscoCrete®-8913 is compatible and recommended for use with viscosity modifying agents to produce SCC. Sika® ViscoCrete®-8913 is not compatible with the Sikament® RB superplasticisers.

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.

LEGAL NOTES

Sika Kimia Sdn. Bhd.
Lot 689, Nilai Industrial Estate,
71800 Nilai, Negeri Sembilan D.K.
Malaysia
Phone: +606-7991762
e-mail: info@my.sika.com
Website: www.sika.com.my