

PRODUCT DATA SHEET

Sika® ViscoCrete® R

POLYCARBOXYLATE BASED HIGH RANGE WATER REDUCING ADMIXTURE FOR RMC

DESCRIPTION

Sika® ViscoCrete® R is a new type of high range water reducer to solve the problem of slump loss, a disadvantage of existing admixture. It is a high range water reducer that provides superplasticity, excellent durability and possible production of high strength concrete and manufactured with a high molecular substance. It can be dosed in small amounts and largely reduce slump loss. It may also be used to produce and place concrete based on the same way as a general AE reducer. Especially Sika® ViscoCrete® R is adequate for normal RMC factory.

USES

- Improvement on the slump loss caused by a long-distant carry
- For the ready-mix concrete plant
- Excellent durability and large reduction of the mixed water
- Production of higher strength or watertight concrete
- Production of semi-flowable concrete
- Production of low heat concrete

CHARACTERISTICS / ADVANTAGES

- Mid-range water reductions resulting in higher strengths and densities
- Flexible application as both WRA and HRWR
- Less sensitive to variations in cement and aggregate types
- It can be transported for a long distance because it is possible to produce the concrete less slump loss.
- It reduces the concrete production cost owing to the reduction of cement.
- It is a chloride-free type, therefore, never causes corrosion of reinforced concrete.
- It can reduce excessive bleeding or segregation due to less bleeding.

APPROVALS / CERTIFICATES

Sika® ViscoCrete® R meets the standard type of high range water reducer of KS F 2560

PRODUCT INFORMATION

Composition	Polycarboxylate dispersion
Packaging	200kg/drum, 1,000kg/IBC, Tank lorry/bulk
Appearance / Colour	light brown liquid
Shelf life	12 months from date of manufacture when stored as stated
Storage conditions	Store in unopened original containers protected from direct sunlight and frost at temperatures between +5°C and +35°C
Specific Gravity	1.04 ± 0.03

APPLICATION INFORMATION

Recommended Dosage	0.5~3.0% by weight of binder including cement. Notes : Dose rate will affect workability, setting time, early and ultimate strength. Trials are recommended to determine the dose rate for each application.
Compatibility	Compatible with other Sika admixtures except naphthalene sulfonate based product, but add separately. Do not pre-mix.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® ViscoCrete® R can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added.

The addition of Sika® ViscoCrete® R to dry aggregate or cement is not recommended.

To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

With higher dose rates, water content of the concrete should be reduced to avoid segregation

IMPORTANT CONSIDERATIONS

Excessive water addition or overdosing may cause bleeding or segregation.

If frozen and / or if precipitation has occurred, Sika® ViscoCrete® R may be used after thawing slowly at room temperature and after intensive mixing.

As with all concrete it is essential to protect mixes containing Sika® ViscoCrete® R from water evaporation during placement and the crucial early age curing period. We recommend the use of Sika Antisol curing agents for this purpose (refer to the separate Sika Antisol data sheets for further information).

BASIS OF PRODUCT DATA

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

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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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