

PRODUCT DATA SHEET

Sika® ViscoCrete®-3100 MY

HIGH RANGE WATER-REDUCING ADMIXTURE FOR EARLY STRENGTH CONCRETE

DESCRIPTION

Sika® ViscoCrete®-3100 MY is a highly effective liquid superplasticiser for the production of free flowing concrete or as a substantial water-reducing agent for promoting high ultimate and early strengths.

USES

Sika® ViscoCrete®-3100 MY is used as a superplasticiser in the production of free flowing concrete for:

- All precast concretes
- Slabs and foundations
- Walls, columns and piers
- Slender components with densely packed reinforcements
- Textured surface finishes

Sika® ViscoCrete®-3100 MY is also used as a high-range water reducing admixture for:

- High strength concretes
- High durability concretes (low w/c ratio)
- High strength and durability precast products

CHARACTERISTICS / ADVANTAGES

As a superplasticiser:

- Workability is greatly improved
- Increased placeability in slender components with packed reinforcements
- Decreases the amount of vibration
- Suitable for use in conjunction with standard plasticizers and retarders (synergized mixes)
- Significantly reduces the risk of segregation
- High early strengths for precast or early stripping

As a water-reducer:

- Water reduction up to 25% depending on dosage*
 - 28-day strengths improved by up to 40%*
- * this will depend on dosage and mix design*

PRODUCT INFORMATION

Composition	Modified polycarboxylate type
Packaging	<ul style="list-style-type: none"> ▪ 200 L drum ▪ 1 000 L tank ▪ Bulk delivery
Appearance / Colour	Clear yellowish liquid
Shelf Life	12 months from date of production
Storage Conditions	Store in undamaged and unopened, original sealed containers, protected from direct sunlight and frost, at temperatures between +5 °C and +30 °C.

APPLICATION INFORMATION

Recommended Dosage

Sika® ViscoCrete®-3100 MY can be used at the rate of 500–2 000 ml per 100 kg of cement depending on requirements concerning workability and strength. It is recommended that trial mixes be conducted to determine the exact dosage rate required.

For more specific requirements, advice is available from our Technical Service Department to determine the usage rate for optimum results.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® ViscoCrete®-3100 MY shall be dispensed neat into the premixed concrete after all the other concrete components, including total water, have been discharged into the pan-mixer or truck mixer. Do not dilute Sika® ViscoCrete®-3100 MY.

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.

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.

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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