

Sika ViscoCrete® G2

High-performance superplasticizer

Product Description

Sika ViscoCrete® -G2 is an aqueous high-performance superplasticizer based on the third generation of Sika ViscoCrete® Polycarboxylate polymer technology.

Uses

Sika ViscoCrete® G2 is formulated for applications in systems with high calcium sulphate content or pure gypsum binders. The product is especially suitable as high-range water reducer in the production of gypsum boards.

Advantages

ViscoCrete®, sika's polycarboxylate technology, works through the forces of steric and electrostatic repulsion to effectively disperse solid particles and provide a high level of fluidity with less water. As a result, ViscoCrete® products can provide higher water reduction and stability than conventional dispersants.

The benefits of Sika ViscoCrete® G2 include, but are not limited to the following:

- Low dosage
- High water reduction
- High level of fluidity with less water.
- Fast adsorption.
- Compatibility with other additives.
- Free of formaldehyde (unlike SNF/SMF).

Especially when utilized for gypsum board production the use of Sika ViscoCrete® G2 may result in:

- Shorter drying time
- Increased production rate and thus enlarged capacity.
- Reduced water consumption and less waste water.
- Reduced energy consumption & CO₂-emission
- Strength increase.
- Overall reduction in production costs.

Product Data

Appearance / Colour

Light brown / nearly colorless liquid

Packaging

5 and 20 kg pails
220 kg drums
Bulk Tanks packing available upon request

Storage Conditions / Shelf -Life

12 months from date of production if stored properly in unopened and undamaged, original sealed packaging, in dry temperatures between +5°C and +30°C. Protected from direct sunlight and frost.

Construction



Technical Data

Chemical Base	Aqueous solution of modified polycaroxylates
Density	1.050 to 1.150 g/cm ³
pH Value	4.0 – 5.0 at +23° C (40% solution)
Total Chloride Ion Content (% w/w)	Chloride-free (EN 934-2)

System Information

Application Details

Consumption / Dosage For typical applications: 0.05 – 0.8% litre by weight of binder
 Dosage rate will vary due to variations in gypsum raw material sources, calcining methods and individual plant operating parameters. Testing is required to identify the optimum dosage for your specific conditions. Please contact our local regional office or Technical service department for more information and assistance.
 Please note: At higher dosages bleeding and segregation may occur as well as retardation of setting.

Compatibility Sika ViscoCrete® G2 may be combined with many other Sika® products as well as with most existing foaming agents, accelerators, retarders or other additives used in gypsum applications.
 Important: always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations with Sika® Products.

Application Instructions

Dispensing Sika® ViscoCrete® G2 is added to the gauging water or added with it into the mixer.
Cleaning of Tools Clean all tools and application equipment with water immediately after use.
Value Base 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.

Important Flowing concrete S.C.C Sika ViscoCrete® -10 is also used to produce flowing and self compacting concrete (S.C.C) For these, special mix designs are required, contact our Technical Service division.

Safety Instructions In contact with skin, wash off with soap and water.
Safety Precautions In contact with eyes or mucous membrane, rinse immediately with clean warm water and seek medical attention without delay.

Local Restrictions Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material safety Data Sheet 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.

