

# Sika® ViscoCrete® G2

## High-performance superplasticizer / water reducer

### Product Description

Sika ViscoCrete G2 is a high-performance superplasticizer and water reducer based on 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.

### Characteristics / Advantages

Sika ViscoCrete, Sika's polycarboxylate technology, works based on a combination of electrostatic adsorption and steric repulsion effects. Thus, solid particles can be effectively dispersed and a high level of fluidity can be reached with less water. As a result, Sika 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:

- High water reduction at low dosage
- High level of fluidity with less water
- Fast adsorption
- Very low retardation
- Compatibility with other additives
- Free of formaldehyde
- Free of ammonia

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 & CO<sub>2</sub>-emission
- Strength increase
- Overall reduction in production costs

### Product Data

#### Form

**Appearance / Colour** Light brown / nearly colorless liquid

**Packaging** IBC of 1'000 kg net,  
Bulk supply on demand,  
Smaller samples for testing are available on request.

#### Storage

**Storage Conditions / Shelf Life** 12 months from date of production if stored properly in undamaged, unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight, frost and contamination.

Construction



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## Technical Data

<b>Chemical Base</b>	Aqueous solution of modified polycarboxylates
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## System Information

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### Application Details

<b>Consumption / Dosage</b>	<p>Dosage range for typical applications: 0.05 - 0.8 % by weight of binder.</p> <p>Note: Differences in calcium sulphate binder type, raw material sources, calcining methods, age and storage conditions of the binder and other individual parameters at the plant and/or job site can influence the superplasticizer consumption of gypsum binders. At higher dosages bleeding and segregation may occur as well as retardation of setting.</p> <p>Preliminary testing is required to determine the exact dosage for your specific conditions. Please contact our Technical Service Department for more information and assistance.</p>
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### Application Conditions / Limitations

<b>Compatibility</b>	<p>Sika ViscoCrete G2 may be combined with many other Sika products (like Retardan and other Sika ViscoCrete's) as well as with most commonly used gypsum additives, like foaming agents, accelerators and retarders. In combination i.e. with Retardan L improvements in flowability and retardation may be achieved.</p> <p>Note: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations with Sika products.</p>
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### Application Instructions

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

<b>Value Base</b>	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.
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<b>Local Restrictions</b>	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.
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<b>Health and Safety Information</b>	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.
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<b>Legal Notes</b>	<p>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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.</p> <p>PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.</p>
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