

## PRODUCT DATA SHEET

# Sika® ViscoCrete®-120 G

### High-Performance Superplasticizer / HRWR

#### DESCRIPTION

Sika® ViscoCrete®-120 G is a high-performance superplasticizer and water reducer based on Sika® ViscoCrete® polycarboxylate polymer technology.

#### USES

Sika® ViscoCrete®-120 G is formulated for applications in systems with high calcium sulfate content or pure gypsum binders.

The product is especially suitable for the manufacture of gypsum products like :

- Gypsum boards (also plaster boards, wall boards), partition panels, ceiling tiles
- Gypsum fireboards, building elements, blocks
- Building plaster, render, stucco, bonding/filling compound , molding plaster, dental & medical plaster

#### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® Sika's polycarboxylate technology, works based on a combination of electrostatic forces and steric repulsion effect. Thus solid particles can be effectively dispersed.

The benefit of Sika® ViscoCrete®-120 G include, but are not limited to the following:

- High water reduction
  - Excellent flowability
  - Rapid adsorption
  - Very low retardation
  - Compatible with other additives
  - Free of formaldehyde and ammonia
- Especially when utilized for gypsum board production the use of Sika® ViscoCrete®-120 G may result in
- Short mixing time
  - Reduced placing and compacting efforts
  - Shorter drying time
  - Reduced shrinkage and creep
  - High strength adjustable
  - Reduced water consumption and less waste water
  - Reduced energy consumption & CO2 emission
  - Increased production rate and thus enlarged capacity
  - Overall reduction in production costs

#### PRODUCT INFORMATION

<b>Chemical base</b>	Aqueous solution of modified poly carboxylates
<b>Packaging</b>	255 kg drums /1000kg IBC & Bulk supply
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
<b>Appearance / Colour</b>	Light brown liquid
<b>Density</b>	~1.09 kg/l at 25°C

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	Dosage range for typical applications: 0.1-1.0% by weight of binder. 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 high dosages bleeding and/or segregation may occur as well as retarding of setting. Note: Preliminary testing is required to determine the exact dosage for your specific conditions. Please contact our technical services for more information and assistance.
<b>Dispensing</b>	Sika® ViscoCrete®-120 G is added to the gauging water or added with it into the mixer.
<b>Compatibility</b>	Sika® ViscoCrete®-120 G may be combined with many other Sika® products as well as with most commonly used gypsum additives, like foaming agents, accelerators, retarders. In combination i.e. with Retardan improvements in flowability and setting time adjustment may be achieved. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations with Sika® products

## 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

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.

## MAINTENANCE

### CLEANING

Clean all tools and application equipment with water immediately after use.

## 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 exact product data and uses.

## 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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