



Sika[®] Viscocrete[®]-105 Powder

Super Plasticiser

Technical Data Sheet

DESCRIPTION

Sika Viscocrete-105 Powder is a third generation super plasticiser. It meets the requirements for super plasticisers according to SIA 162 (1989) and prEN 934-2.

USES

Sika ViscoCrete-105 Powder is especially suitable for the production of mortar and concrete dry mixes.

Sika ViscoCrete-105 Powder facilitates extreme water reduction, excellent flowability with at the same time optimal cohesion and highest self compacting behaviour.

High water reduction, excellent flowability, coupled with good early strengths, have a positive influence on the above mentioned applications.

ADVANTAGES

Sika ViscoCrete-105 Powder combines different mechanisms. Through surface adsorption and sterical separation effect on the binder particles, in parallel to the hydration process, the following properties are obtained:

- * Extremely high water reduction (resulting in high density and strengths).
- * Excellent flowability (resulting in highly reduced placing and compacting efforts).
- * Increased high early strengths development.
- * Improved shrinkage and creep behaviour.
- * Reduced rate of carbonation of the concrete.

Sika ViscoCrete-105 Powder does not contain chloride or other, steel corrosion promoting ingredients. It may therefore be used without any restrictions for reinforced- and prestressed- concrete construction.

Technical Data (typical)

Form:	Powder
Colour:	White
Density:	~ 0.75 kg/ltr
Dosage % by wt of cement:	0.05 - 0.3
Air entrainment:	Slight
Chloride content % w/w:	<0.01%
Effect on setting:	Accelerates if used as water reducer
pH value:	7.0 ± 0.5 (35% solution)

All above values are approximate.

METHOD OF USE

This material can be blended with the cement for bagged production.

DISPENSING

Please contact our technical department for specialist advice.

EFFECTS OF OVER-DOSING

Can retard at very high dosages.

COMPATIBILITY

Sika Admixtures: With all Sika admixtures and cements

IMPORTANT NOTES

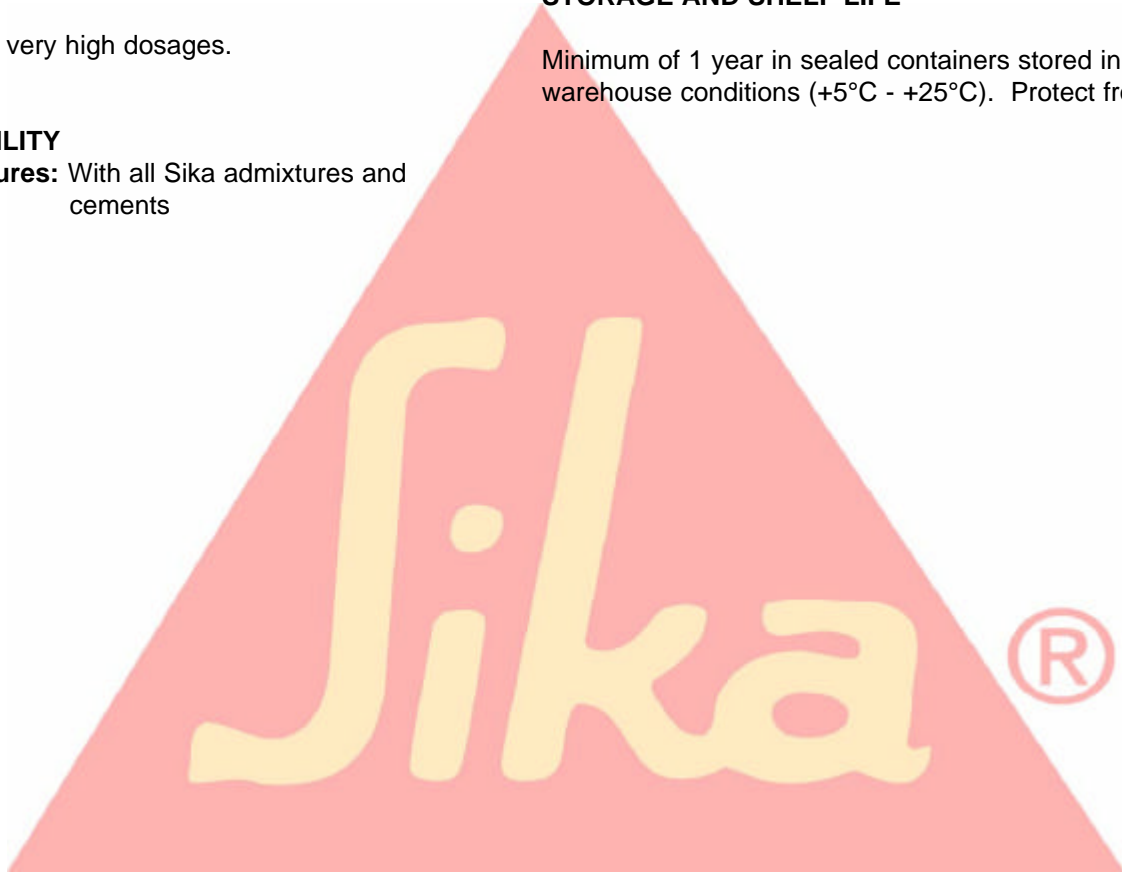
This product should be trialled to establish optimum performance, **Sika** technical services department are available to assist with this task.

PACKAGING

25 kg bags and bulk bags are available on request.

STORAGE AND SHELF LIFE

Minimum of 1 year in sealed containers stored in dry warehouse conditions (+5°C - +25°C). Protect from frost.



Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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