# **LAMPIRAN**

Technical Data Sheet Edition 3, 2007 Identification no. 02 01 01 01 200 0 000097 Version no. 0010 Sika® Viscocrete®-10

# Sika Viscocrete - 10

# High Performance Superplasticiser

	Description
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	Uses
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0	Advantages

Sika®Viscocrete® -10 is a third generation superplasticiser for concrete and mortar. It is particularly developed for the production of high flow concrete with exceptional flow retention properties.  Complies with A.S.T.M. C 494-92 Type F
Sika®Viscocrete® -10 is especially suitable for concrete mixes with prolonged transportation time and long workability, powerful water reduction and excellent flowability.
Sika®Viscocrete® -10 is suitable for the production of both precast concrete and ready mix concrete.  Sika Viscocrete facilities extreme water reduction, excellent flowability with the same time optimal cohesion and highest self compacting behaviour.
Sika®Viscocrete® -10 is mainly used for the following applications:  Concrete with a very high water reduction (up to 30%)  High performance concrete  Concrete in summer and with a prolonged transportation and workability time  Watertight concrete  Ready mix Concrete  Self compacting Concrete  High Strength Concrete  Watertight Concrete  Mass Concrete
Sika®Viscocrete® -10 as a powerful superplasticiser acts by different mechanisms.  Through surface adsorption and strerical effects separating the binder particles the following properties are achieved:  Extremely powerful water-reduction, resulting in high density, high strength and reduced permeability  Excellent platicising effect, resulting in improved flowability, placing and compacting behaviour. Therefore suitable for the production of self compacting concrete.  Improved shrinkage and creep behaviour  Reduced rate of carbonation of the concrete

Sika®Viscocrete® -10 does not contain chlorides or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable for reinforced and

prestressed steel.

☐ Improved watertight behaviour

## **Product Data**

Appearance / Colour	Turbid Whitish Liquid
Packaging	200 kg drums (non returnable)
	Bulk delivery

nelf-Life		12 months from date of production if stored properly in original and unopened pack
	Storage Condition /	Dry, shaded place, Protect from direct sunlight and frost.
	Technical Data Chemical Base	Modified polycophovulate in water
		Modified polycarboxylate in water
	<u>Density</u>	Specific density: approx. 1.06 kg/l (at +20°C)
	pH-Value	$4.25 \pm 0.5$
	System Information	
	Dosage	Recommended dosage for a concrete with high workability
flouring		For soft plastic concrete 0.2 – 0.6% by weight of binder
flowing d self		
npacting	concrete (S.C.C.) 0.5 – 1.8% by Application	weight of binder Sika®Viscocrete® -10 may be combined with the following products :
	Conditions / Limits	Plastocrete R
		Plastiment RTD-01
		Plastiment VZ
		SikaFume Sika AER
		Pre-trials are recommend if combinations with the above products are required. Please consult our Technical Service Department.
		To produce flowing and/or self-compacting concrete, special concrete mix design is required. Pre-trials are mandatory. Please consult our Technical Service Department
	Application Instructions	
	Dispensing	Sika®Viscocrete® -10 is added to the gauging water or simultaneously added with water into the concrete mixer.
		To take advantage of the high water reduction, a wet mixing time of at least 60
		seconds is recommended.
		To avoid excess water in the concrete, final dosage must start after 2/3 of wet mixing time only.
lication hod / To		concreting practice, concerning production as well as placing, are to be followed.
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		е
		sh concrete must be cured properly and as early as possible.
aning of only be hanical moved.	• 	ation equipment with water immediately after use. Hardened/cured material
		f frozen and/or if precipitation has occurred, Sika®Viscocrete® -10 may be used after t
		h h
		a wing slowly at room temperature and after intensive mixing.
	Protective Measure	
		Upon contact with skin, wash off with water and soap. In case on contact with eyes or mucous membrane, rinse immediately with clean water and seek <u>medical</u> attention without delay.
	Important Notes	All technical data stated in this Product Data Sheet are based on laboratory

responsible local authorities.

tests. Actual data may vary due to changing conditions beyond our control.

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



Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data be obtained from the safety data sheet.

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#### **Technical Data Sheet**

Edition 2, 2005 Identification no. 02 01 01 05 000 0 000019 Version no. 0010 SikaFume<sup>6</sup>

# SikaFume®

# Densified Silica Fume

Description SikaFume is a new generation concrete additive in a fine powder form based on

Silica fume technology.

SikaFume is used as a high effective additive for the production of high quality

Complies with ASTM C 1240-00

Use SikaFume is used to increase the density, durability and compressive strength of

concrete.

Advantages The use of SikaFume improves the performance characteristics of concrete in the

following ways:

Increased workability over a longer period of time.

Improved cohesiveness and stability of green concrete

Durability greatly increased.

Water permeability of concrete greatly reduced

Permeability to gases greatly decreased Greatly improved resistance to carbonation Infiltration of chlorides greatly reduced

Very high early and ultimate strengths

SikaFume contains no chlorides or other potentially corrosive substances.

It can therefore be used with complete safety in reinforced and prestressed concrete

Dosage 3% - 10% by weight of cement

SikaFume is compatible with most of Sika admixtures.

Please consult our Technical Service Division for further information.

Instruction for Use SikaFume should be dry-mixed with other concrete components before the mixing water is added. After the water is added, further mixing is required to allow the even distribution of ingredients throughout the mixed concrete.

For increased effectiveness, it is advisable to incorporate a super plasticizer such as Sikament-range into the concrete mix.

It advisable to carry out trial mixes to establish exact dosage rate required.

Technical Data	Powder
Colour	Greyish
Bulk Density	Approx. 0.60 kg/ ltr
Shelf life	Minimum 3 years if stored properly in its original bag in dry place





Table of Contents

<u>Storage</u> <u>Dry. shaded place</u>

Packaging 20 kg bag

### Handling Precautions:

SikaFume is powder product.

Wearing a mask is advisable when pouring the product into the mixer.

- Avoid contact with skin and eyes
- Wear protective gloves, mask and eye protection during work
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.

## **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 product when properly stored, handled and applied under normal conditions in accordances 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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