

HA-BE SILICA FLUID

Liquid microsilica for high quality and durable concrete

Item No 3300

FIELDS OF APPLICATION

HA-BE SILICA FLUID is a high quality concrete additive for the production of tight and durable concrete.

The main application area is concrete meeting the highest standards as far as strength, water tightness and resistance against chemical attack are concerned.

For the production of high performance concrete with a low water/cement ratio especially adapted superplasticisers such as PANTARHIT® series recommended.

DOSAGE

The generally dosage range is 2.0 – 10.0 mass-% of the cement content.

WORKING PRINCIPLE

Due to its very even dispersion, HA-BE SILICA FLUID is a very effective admixture that reacts intensively with the calcium hydroxide out of the cement hydration.

In fresh concrete the addition of HA-BE SILICA FLUID improves the cohesive strength and the water retaining ability of the mixture.

In hardened concrete it contributes to the improvement of tightness, strength and resistance against chemical and mechanical attack.

TECHNICAL DATA

Homogeneity	shake before using
Colour	grey
State	liquid
Density	1.37 ± 0.03 g/cm ³
Solid Content	50.0 +/- 2.0 %
Chloride content	< 0.3 mass-%
SiO ₂ content *	89 - 98 %
Free CaO *	0,3 – 2,5 %
SO ₃ *	0,1 – 0,3 %
Loss on ignition (750°C) *	0,7 – 2,6 %
Cl content *	0,02 – 0,06 %
Na ₂ O equivalent *	0,2 – 0,7 %
Pozzolanic activity index (28d) *	min. 100 %
Specific surface area *	15 - 35 m ² /g
Shelf life	approx. 1 year from date of production if stored properly
Storage conditions	store in unopened, original sealed packaging between +5 °C and +25 °C. Protect from frost and insolation

*Tested in dry form

PROCESSING INDICATIONS

HA-BE SILICA FLUID should be regularly agitated to remain homogenous (twice daily).

Refer to the corresponding Method Statement for further information.

This product is not classified as hazardous according to the CLP regulations. See safety data sheet for further information.

PACKAGING

- 30 l can
- 200 l barrel
- 1000 l container
- loose by bulk supply

REMARKS

This information describes the application- and processing possibilities of a product and its operation principles under regular conditions. Having no influence on the further application and processing, especially in conjunction with other construction materials, the given indications are neither a warranty in respect of the product's properties or its fitness for a particular purpose nor a full instruction of use. This information, any other recommendation or verbal advice are not binding and do not infer to any liability or legal demand.

Due to continuous further development, the most recent Technical Data Sheet is valid and will be supplied on request. All orders are accepted subject to our current general terms and conditions.

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SUITABILITY- AND PRE-TESTS ARE NECESSARY BEFORE APPLYING THE CONCRETE ADMIXTURE!