

PRODUCT DATA SHEET

Sika® ViscoCrete®-4050 HES PH SWJV

High Performance Superplasticizing Admixture

DESCRIPTION

Imparts very high workability, allows a large reduction in water content and gives high early strength.

USES

Sika® ViscoCrete®-4050 HES PH SWJV a superplasticizer for free flowing concrete in floors, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural elements.

Sika® ViscoCrete®-4050 HES PH SWJV is mainly used for the following types of concrete:

- High performance concrete
- High early strength concrete
- Ready mixed concrete
- Self compacting concrete
- Precast concrete
- Prestressed concrete

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-4050 HES PH SWJV produces a more uniformly cohesive high quality free flowing concrete Sika® ViscoCrete®-4050 HES PH SWJV will result in the following advantages of concrete:

- Improved dispersion properties
- Very high water reduction
- Improved strength and density
- Improved durability
- Improved cohesion properties
- Improved rheology
- Improved flowability
- Reduced drying shrinkage

PRODUCT INFORMATION

Chemical Base	Polycarboxylate Ether
Packaging	210 liter Drum, 1000 liter Bulk
Colour	Brown liquid
Shelf Life	12 months from date of production if stored properly in undamaged unopened, original-sealed packaging.
Storage Conditions	Store in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight.
Specific gravity	Approximately 1.080

Recommended Dosage

Optimum dosage of Sika® ViscoCrete®-4050 HES PH SWJV should be determined by site trials.
Recommended dosage: 0.2 – 2.0% by weight of cementitious.
A higher dosage might be used if agreed by client, consultant. Stir well before use.

Dispensing

Sika® ViscoCrete®-4050 HES PH SWJV can be added into the mixing water or directly into the concrete mixer after 50% – 70% of the mixing water has been added.
The addition of Sika® ViscoCrete®-4050 HES PH SWJV to dry aggregate or cement is not recommended.
To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

Compatibility

Sika® ViscoCrete®-4050 HES PH SWJV may be combined with many other Sika® Products.
It is compatible with all types of ordinary Portland cement, PPC, PSC and cement replacement materials.
Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

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.

LIMITATIONS

Excessive water addition or overdosing may cause bleeding or segregation.
If precipitation has occurred, Sika® ViscoCrete®-4050 HES PH SWJV may be used after thawing slowly at room temperature and after intensive mixing.

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

MAINTENANCE

CLEANING

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

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.

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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