

PRODUCT DATA SHEET

Sika® ViscoCrete® HES 3939 Ease

(formerly MasterEase® HES 3939)

Poly Aryl Ether based superplasticizer for the production of high-quality precast concrete

DESCRIPTION

Sika® ViscoCrete® HES 3939 Ease is an innovative latest generation superplasticizer based on Poly Aryl Ether (PAE) polymers and is specially engineered for precast concrete.

Sika® ViscoCrete® HES 3939 Ease is formulated from unique polymers produced in-house. The objective of the development of the PAE polymer was to take the characteristics of traditional polycarboxylic ether (PCE) admixtures but to modify the structure of the polymer to give enhanced rheology and robustness to the concrete.

The PAE polymers contained in the formulation of Sika® ViscoCrete® HES 3939 Ease ensure that enhanced rheology is maintained from time of mixing to time of placing and finishing. The polymer structure of Sika® ViscoCrete® HES 3939 Ease is specially designed to improve the rheology of precast concrete, making it very flowable and low viscous even at very low water/cement ratios, without increasing stickiness. Robustness is a distinctive feature of the precast concrete produced with Sika® ViscoCrete® HES 3939 Ease.

USES

Sika® ViscoCrete® HES 3939 Ease is used for the production of high-quality precast concrete.

FEATURES

Sika® ViscoCrete® HES 3939 Ease offer the following benefits for the precast concrete industry:

- Production of highly flowable, robust selfcompacting concrete having a low water cement ratio along with an optimal rheology
- Enhanced robustness and consistency in concrete quality with low stickiness
- Environmentally friendly, CO2 reduced mix design optimization
- Elimination/reduction of heat curing
- Improved surface appearance
- Exceptionally high early strength

CERTIFICATES AND TEST REPORTS

ASTM C-494 Type F
BS EN 934-2

PRODUCT INFORMATION

Packaging	Sika® ViscoCrete® HES 3939 Ease is supplied in bulk.
Shelf life	Up to 12 months if stored according to manufacturer's instructions in unopened containers.
Storage conditions	Sika® ViscoCrete® HES 3939 Ease should be stored in closed containers or storage tanks to protect from evaporation.
Appearance and colour	Brown liquid
Density	@ 25°C = 1.120-1.150
pH-Value	4.0 - 7.0
Total chloride ion content	"chloride-free" to EN 934

APPLICATION INFORMATION

Recommended dosage	The normally recommended dosage rate of Sika® ViscoCrete® HES 3939 Ease is 0.8 - 2.5 L/100kg of total cementitious material. Other dosages may be recommended in special cases according to the specific site conditions. In this case please consult our Technical Services Department for advice.
Compatibility	Sika® ViscoCrete® HES 3939 Ease is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if Sika® ViscoCrete® HES 3939 Ease is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted. Avoid adding the admixture to the dry aggregates. Sika® ViscoCrete® HES 3939 Ease is suitable for mixes containing: <ul style="list-style-type: none">• SikaFume® SF 100 (Silica Fume)• Fly Ash (PFA)• GGBS (ground granulated blast furnace slag)

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

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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