

PRODUCT DATA SHEET

Sika® ViscoCrete® PC HRF-2

HIGH RANGE WATER REDUCER

DESCRIPTION

Sika® ViscoCrete® PC HRF-2 is a third generation High Range Water Reducer specifically designed for the production of concrete which requires high early strength characteristics and enhanced workability retention.

USES

Sika® ViscoCrete® PC HRF-2 is suitable for the production of concrete mixes which require extended workability retention, (for a target slump of greater than 160mm the product is capable of maintaining workability within the tolerances set by AS1379-2007 for up to 45 minutes.), high early strength, high water reduction, improved workability and off shutter finish characteristics. It is ideally suited for use in:

- Precast concrete (due to the workability retention properties this can also be batched off site)
- Post tensioned applications
- High early strength applications
- High strength concrete
- Self compacting concrete (SCC)

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxilates.
Packaging	Bulk deliveries 1000 litre IBC 10 litre container
Shelf life	Stored at temperature between 5°C and 35°C in unopened original containers protected from direct sunlight and frost, shelf life is one (1) year.
Storage conditions	Store at temperature between 5°C and 35 °C, protected from direct sunlight.
Appearance and colour	Clear light brown liquid.
Density	1.08 kg/l approximately
Recommended dosage	Typical dosage rates range from 200 – 1000ml per 100kg of total cement-

FEATURES

Sika® ViscoCrete® PC HRF-2 effectively achieves the following benefits:

- High density and impermeable concrete through high water reduction.
- Improved workability and finishing.
- Pronounced increase in the early strength development.
- Increased characteristic strengths.
- Increased durability of the concrete
- Optimised cement utilisation

CERTIFICATES AND TEST REPORTS

Sika® ViscoCrete® PC HRF-2 is a high-range water reducing admixture meeting the requirements of AS1478.1 – 2000 Type HWR

tious material.

Optimum dosage depends on the type of concrete, site conditions, mix proportions, ingredients and desired plastic and hardened concrete properties. Laboratory and/or field trials are essential in determining the optimum dosage.

Dispensing

Sika® ViscoCrete® PC HRF-2 is added to the initial batching water. For optimum utilisation of the high water reduction we recommend thorough mixing at a minimal wet mixing time of 60 seconds per cubic meter. The addition of the remaining gauging water, to fine tune concrete consistency, should only be started after 2/3 of the wet mixing time, to avoid surplus water in the concrete. Do not add Sika® ViscoCrete® PC HRF-2 to dry mix.

Compatibility

Sika® ViscoCrete® PC HRF-2 can be used in conjunction with all Sika Concrete Admixtures, with the exception of Sikament® NN. All Admixtures must be added separately and trials are recommended before use.

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.

FURTHER DOCUMENTATION

May slightly increase air content of concrete.
Do not use with naphthalene based admixtures.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

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