

PRODUCT DATA SHEET

Sika® ViscoCrete®-799 PR1

High range water reducer / superplasticiser

DESCRIPTION

Sika® ViscoCrete®-799 PR1 is a third generation High Range Water Reducing/SuperPlasticizing admixture for concrete and mortar.

USES

Sika® ViscoCrete®-799 PR1 is specially suitable for the production of concrete mixes which require high strength development, powerful water reduction and excellent flowability

Sika® ViscoCrete®-799 PR1 is mainly used for the following applications:

- Ready mixed concrete
- Precast concrete
- High performance concrete
- Site batched concrete
- Self Compacting Concrete (SCC)

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-799 PR1 as a powerful water reducer acts by through surface adsorption and sterical effects separating the binder particles the following properties are achieved:

- Powerful water reduction, resulting in high density, high strength and reduced permeability for water etc.
- Excellent plasticizing effect resulting in improved flowability, placing and compacting behaviour
- Reduced shrinkage and creep
- It does not contain chlorides or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable for reinforced concrete.

APPROVALS / STANDARDS

Conforms to IS 9103 / ASTM C494

PRODUCT INFORMATION

Chemical base	Aqueous solution of modified polycarboxylates
Packaging	255kg drum/ bulk
Appearance / Colour	Brown liquid
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +40 °C. Protect from direct sunlight and frost. Always refer to the packaging. Frost: If frozen or if precipitation has occurred, the Product may be used after thawing slowly at room temperature and intensive mixing.
Density	~1.11 kg/l at 25°C
pH-value	≥6

APPLICATION INFORMATION

Recommended Dosage

Optimum dosage of Sika® ViscoCrete®-799 PR1 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 or consultant. Stir well before use.

SYSTEM INFORMATION

Compatibility

Sika® ViscoCrete®-799 PR1 may be combined with many other Sika® Products.
Compatible with all types of cements and cementitious 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.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® ViscoCrete®-799 PR1 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®-799 PR1 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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