

## PRODUCT DATA SHEET

# Sika® ViscoCrete®-789 PR

### High Range Water Reducer/Superplasticizer

#### DESCRIPTION

Sika® ViscoCrete®-789 PR is a third generation High Range Water Reducing/SuperPlasticizing admixture for concrete and mortar.

#### USES

Sika® ViscoCrete®-789 PR is specially suitable for the production of concrete mixes which require high strength development, powerful water reduction and excellent flowability

Sika® ViscoCrete®-789 PR 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®-789 PR as a powerful water reducer acts by through surface adsorption and sterical effects separating the binder particles the following properties are achieved:

- Powerfull 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
- Reduction in shrinkage and creep behaviour
- It does not contain chlorides or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable for reinforced concrete.

#### APPROVALS / STANDARDS

IS 9103, ASTM C494

#### PRODUCT INFORMATION

<b>Chemical base</b>	Polycarboxylate Ether
<b>Packaging</b>	255 Kg HDPE Drum/ Bulk supply
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
<b>Appearance / Colour</b>	Brown Liquid
<b>Density</b>	~1.09 kg/l at 25°C
<b>pH-value</b>	≥ 6

# APPLICATION INFORMATION

## Recommended Dosage

Optimum dosage of Sika® ViscoCrete®-789 PR 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.

## Dispensing

Sika® ViscoCrete®-789 PR 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®-789 PR 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.

## 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.

## IMPORTANT CONSIDERATIONS

When using Sika® ViscoCrete®-789 PR a suitable mix design has to be taken into account and local material sources shall be trialled.  
Sika® ViscoCrete®-789 PR shall not be added to dry cement.  
Excessive water addition, overdosing, changes in aggregates properties, cement properties, cementitious materials properties may cause bleeding, segregation issue, workability or setting issues.

## 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.

## MAINTENANCE

### CLEANING

Clean all tools and application equipment with water immediately after use.

## 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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