

PRODUCT DATA SHEET

Sika® ViscoCrete®-8401 CH

High Range Water Reducer/Superplasticizer

DESCRIPTION

Sika® ViscoCrete®-8401 CH is a third generation High Range Water Reducing/SuperPlasticizing admixture for concrete and mortar.

USES

Sika® ViscoCrete®-8401 CH is specially suitable for the production of concrete mixes which require high strength development, powerful water reduction and excellent flowability

Sika® ViscoCrete®-8401 CH 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®-8401 CH 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

IS 9103/ ASTM C494

PRODUCT INFORMATION

Chemical base	Polycarboxylate Ether
Packaging	255kg drum/ Bulk supply
Appearance / Colour	Light 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 +10°C and +40°C. Protect from direct sunlight and frost.
Density	~1.07 kg/l at 25°C
pH-value	≥6

APPLICATION INFORMATION

Recommended Dosage

Optimum dosage of Sika® ViscoCrete®-8401 CH 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®-8401 CH 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

LOCAL RESTRICTIONS

ECOLOGY, HEALTH AND SAFETY

LEGAL NOTES

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.

DISPENSING

Sika® ViscoCrete®-8401 CH 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®-8401 CH 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.

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