PRODUCT DATA SHEET

Sika® ViscoCrete®-8160

HIGH PERFORMANCE SUPERPLASTICISER

DESCRIPTION

Sika® ViscoCrete®-8160 is a third generation superplasticiser for concrete and mortar and designed for use as high range water reducing superplasticisers.

USES

Sika® ViscoCrete®-8160 is an economical multi-purpose superplasticiser that is particularly suitable for the production of concrete that demands high early strength. With its good water reducing and early strength development Sika® ViscoCrete®-8160 is used for the following:

- Wide range of applications where good workability and good early strength development are required.
- Concrete with high water reduction (up to 25%).
- High performance concretes

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-8160 is an economical superplasticiser based on advanced technology which gives the following advantages:

- High water reduction, resulting in high density, high strength and reduced permeability.
- Good workability in conjunction with subsequent fast strength development.
- Excellent plasticising effect, resulting in improved flow, placing and compaction characteristics.
- Reduced shrinkage during curing and reduced creep when hardened.
- Provides many opportunities for cost improvement e.g.: Cement reduction, More economic mix design, Reduced energy costs for steam curing precast elements, Reduction of potential claims etc.

Sika® ViscoCrete®-8160 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Chemical base</th>
<th>Modified polycarboxylate in water</th>
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<tbody>
<tr>
<td>Packaging</td>
<td>200 L drums (non returnable)</td>
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<td></td>
<td>1 000 L IBC’s or tanker delivery on request</td>
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<tr>
<td>Appearance / Colour</td>
<td>Liquid / Turbid brownish</td>
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<tr>
<td>Shelf life</td>
<td>12 months from date of production if stored properly in undamaged unopened, original sealed packaging.</td>
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<tr>
<td>Storage conditions</td>
<td>Store in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost.</td>
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<tr>
<td>Density</td>
<td>1.06 ± 0.01 kg/L (at +20 °C)</td>
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<tr>
<td>Total Chloride Ion Content</td>
<td>&lt; 0.1 % w/w</td>
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</table>
TECHNICAL INFORMATION

Concreting Guidance
The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.

APPLICATION INFORMATION

Recommended Dosage
For medium workability: 0.5 % - 0.8 % by weight of binder
For concrete with high workability, very low water/cement ratio: 0.8 % - 2.0 % by weight of binder

Compatibility
Sika® ViscoCrete®-8160 may be combined with many other Sika Products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

APPLICATION INSTRUCTIONS

DISPENSING
Sika® ViscoCrete®-8160 is added to the gauging water or added with it into the concrete mixer. To take advantage of the high water reduction, a wet-mixing time of at least 60 seconds is recommended.

LIMITATIONS
Excessive water addition or overdosing may cause bleeding or segregation.
Frost: If frozen and / or if precipitation has occurred, Sika® ViscoCrete®-8160 may be used after thawing slowly at room temperature followed by intensive remixing. 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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 the exact product data and uses.

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.