

Sika® Viscocrete® -7090P

High Performance superplasticiser

Product Description	Sika ViscoCrete-7090P is a third generation superplasticiser for concrete and mortar. For high range water reducing superplasticisers.
Uses	<p>Sika ViscoCrete-7090P is a unique multi purpose superplasticiser that is particularly suitable for the production of concrete that demands high early strength with extended workability. Additionally it provides ultra high water reduction and excellent flow characteristics.</p> <p>With its outstanding combination of workability time and early strength development Sika ViscoCrete-7090P is used for the following :</p> <ul style="list-style-type: none"> ■ A wide range of applications where excellent workability and good early strength development are required. ■ Concrete with ultra high water reduction (up to 30%). ■ High performance concretes
Characteristics / Advantages	<p>Sika ViscoCrete-7090P is a powerful superplasticiser based on advanced technology which gives the following advantages :</p> <ul style="list-style-type: none"> ■ High water reduction, resulting in high density, high strength and reduced permeability. ■ Extended 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.: <ul style="list-style-type: none"> - Cement reduction - More economic mix design - Reduced energy costs for steam curing precast elements. - Reduction of potential claims etc. <p>Sika ViscoCrete-7090P 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.</p>
Tests	
Product Data	
Form	
Appearance / Colour	Turbid brownish liquid
Packaging	200 ltr drums (non returnable) 1000 litre IBC's or tanker delivery on request.
Storage	
Storage Conditions / Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight and frost.



Technical Data

Chemical Base Modified polycarboxylate in water.

Density 1.070 ±0.01 kg/ltr (at +25°C)

Chloride content Nil

System Information

Application Details

Consumption / Dosage Recommended dosage:
For medium workability: 0.3% - 0.8% by weight of cement.
For concrete with high workability, very low water/cement ratio : 0.8% - 1.8% by weight of cement.

Application Conditions / Limitations

Compatibility Sika ViscoCrete-7090P 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-7090P 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.

Application Method / Tools

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.

Cleaning of Tools

Clean all tools and application equipment with water immediately after use.
Hardened / cured material can only be removed mechanically.

Notes of Application / Limitations

Excessive water addition or overdosing may cause bleeding or segregation.

Frost:

If frozen and / or if precipitation has occurred, Sika ViscoCrete-7090P may be used after thawing slowly at room temperature followed by intensive remixing.

Notes

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.

Local Restrictions

Please note that as result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Protective Measures

Upon contact with skin, wash off with soap and water. In case of contact with eyes or mucous membranes, rinse immediately with clean water and seek medical attention without delay.

Important Notes

Unmixed / mixed material must be disposed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtain from the material safety data sheet.



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 product 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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