

Sika® ViscoCrete® CR141

Accelerating High Range Water Reducing/Superplasticising Concrete Admixture

Construction

Product Description	Sika® ViscoCrete® CR141 is a liquid admixture for concrete which is used as an accelerating high range water reducer/superplasticiser. It meets the requirements of BS EN 934-2.
Uses	<p>Sika® ViscoCrete® CR141 is a unique product that is suitable for the production of precast concrete.</p> <ul style="list-style-type: none"> ■ Applications that require excellent workability and early strength development ■ Applications that require high quality concrete ■ High performance concrete ■ Self compacting concrete
Characteristics / Advantages	<ul style="list-style-type: none"> ■ High-range water reductions resulting in higher strengths and densities ■ Improved cohesion properties ■ Improved early and ultimate strengths ■ Improved rheology ■ Improved durability ■ Reduced segregation and bleeding ■ Reduced drying shrinkage ■ Reduced mix costs ■ Faster mould turnaround ■ Improved surface finish
Tests	
Approval / Standards	Conforms to the requirements of BS EN 934-2 Tables 3.1 & 3.2 DoP 02 13 01 01 100 0 000251 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark
Product Data	
Form	
Appearance / Colours	Pale Brown Liquid
Packaging	200 litre drum, 1000 litre IBC
Storage Conditions / Shelf Life	12 months from date of production if stored properly in undamaged containers, in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.



Technical Data

Chemical Base	Modified polycarboxylate
Density	1.07 kg/l (at +20°C)
pH Value	4.3 ± 1.0
Freezing Point	+1°C
Chloride Ion Content	<0.10% w/w (chloride free)
Air Entrainment	Negligible, normally a minimal increase
Effect on Setting	Reduction to normal setting time
Effect of Overdosing	Increased workability and segregation
Alkali Content	<0.60% w/w

Mechanical / Physical Properties

Compressive Strength

 Typical Data - Sika® ViscoCrete® CR141

Admixture	Dose (BWC%)	w/c ratio	Slump (mm)	24 hour Compressive Strength N/mm ²	28 day Compressive Strength N/mm ²
Control (350 kg/m ³)	None	0.58	150	14.0	43.0
Sika® ViscoCrete® CR141	0.60	0.46	150	25.0	67.0

System Information

Application Details

Consumption / Dosage 0.3 -1.2% by weight of cement

Application Conditions / Limitations

Compatibility

Sika® Admixtures:

- Compatibility information available on request

Cements:

- All cement combination

Application Instructions

Dispensing ■ Sika® ViscoCrete® CR141 should be dispensed through suitable calibrated dosing equipment.

Application Method / Tools ■ The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.

- Sika® ViscoCrete® CR141 should not be added to dry cement

- Sika® ViscoCrete® CR141 should be added with the mixing water

Notes on Application / Limitations ■ When using Sika® ViscoCrete® CR141 a suitable mix design is required and local material sources should be evaluated.

- Support from our Technical Department is recommended

Value Base	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 a 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.
Health and Safety Information	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.
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.
CE Labelling	EN 934-2:2009 is a candidate "harmonized" European Standard and fully takes into account the requirements of the European Commission mandate M128. Products related to concrete, mortar and grout, given under the EU Construction Products Directive (89/106/EEC) and intended to lead to CE marking. CE-labelled as per Annex ZA.3, table ZA.2 conformity 2+ and fulfil the requirements of the given mandate of the EU Construction Products Directive (89/106/CE).



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