

PRODUCT DATA SHEET

Sika® ViscoCrete®-2022 RSX

HIGH RANGE WATER REDUCING CONCRETE ADMIXTURE

DESCRIPTION

Sika® ViscoCrete®-2022 RSX is a high range water reducing admixture for concrete and mortar. It enables the production of normal concrete as well as self compacting concrete in a industrial and economical manner with high quality.

USES

Sika® ViscoCrete®-2022 RSX is suitable as an admixture for use in manufacturing both precast and ready mix concrete when the goal is to achieve fairly long workability time combined with very good strength development, powerful water reduction and good flow of the concrete. Sika® ViscoCrete®-2022 RSX concrete admixture is mainly used for following applications:

- concrete production in precast plants - especially of warm or accelerated concrete
- concrete production in precast plants, when ready mix concrete is also sold
- concrete production in ready mix plants - especially for floors
- concrete for at site casting when good pumpability is required
- production of self compacting concrete

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-2022 RSX is a powerful superplasticiser which works in various mechanisms. With retarding active spots of the cement, with surface adsorption, with electrostatic repulsion and with steric hindrance the cement/binder particles are separated and following advantages are achieved:

- High water reduction, which leads to higher density, higher strength and smaller permeability

- Excellent plastisizing effect, which leads to better flowability, easier handling, casting and compaction
- Smaller concrete shrinkage during curing and strength development
- Less hardened surface finishing together with higher quality and early strength

APPROVALS / CERTIFICATES

Sika® ViscoCrete®-2022 RSX is a high range water reducing admixture according to EN 934-2:T3.1/3.2 and it is CE marked.

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March 2023, Version 01.01

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PRODUCT INFORMATION

Composition	Modified polycarboksylate
Packaging	20 kg canister, 200 kg drum, 1 000 kg IBC container or bulk in a tank truck.
Shelf life	9 months from date of production if stored properly in undamaged un-opened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +1°C and +30°C. Protect from direct sunlight, frost and contamination (pollen etc.). Use tanks that are made of plastic, glass fibre or acid resistance steel. It is recommended that the product should be mixed mechanically or with "round pumping" daily during the use. Product should not be mixed with pressured air - to avoid separation.
Appearance and colour	Light colored greenish blur liquid
Density	1,047 kg/dm ³ ± 0,020 kg/dm ³
Conventional dry material content	~22,0% ± 0,8%
pH-Value	~6,5 ± 1,0
Total chloride ion content	≤ 0,10 mass-%
Equivalent sodium oxide	< 0,90 mass-%

TECHNICAL INFORMATION

Concreting guidance	Good concrete practice must be followed (production and casting). Preliminary testing has to be carried out before actual castings - especially when changing to a new mix design or when changing concrete raw materials. Fresh concrete must be cured appropriately and as soon as possible.
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APPLICATION INFORMATION

Recommended dosage	Recommended dosage: 0,3 % – 2,0 % by weight of the binder - depending on the desired effect. Carry out preliminary testing with cement/binder and aggregates which will be used.
Dispensing	Sika® ViscoCrete®-2022 RSX can earliest be added together with the mixing water. It is recommended that Sika® ViscoCrete®-2022 RSX will be added 10-20 seconds after mixing water in order to get full use of the admixture. The recommended wet mixing time is at least 45-180 seconds - depending on the mixer type.
Compatibility	Sika® ViscoCrete®-2022 RSX efficiency can vary depending on the different cements, binder systems, mix designs and working methods. Sika® ViscoCrete®-2022 RSX can be used in combination with other Sika admixtures with separate addition. Please consult our technical service. Carry out preliminary tests.

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.

IMPORTANT CONSIDERATIONS

Overdosing can cause concrete segregation with very fluid concrete and with errors in mix design. Overdosing has minor retarding effect.

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.

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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