

SikaAer® 200S

Air-entraining admixture for concrete and mortar

Product description

Product Description	SikaAer® 200S – ready to use air-entraining admixture for concrete. SikaAer® 200S according to technical specifications №2499-003-13613997-2008
Uses	<p>SikaAer® 200S used as an effective additive for the manufacture of air-entraining concrete with a high frost resistance, including in salt solutions.</p> <p>SikaAer® 200S в комплексе с суперпластификаторами серий Sikament®, SikaPlast® и Sika® ViscoCrete® применяется для создания высококачественных долговечных бетонов для строительства:</p> <p>SikaAer® 200S in combination with superplasticizers series Sikament®, SikaPlast® and Sika® ViscoCrete® is used to create high-quality durable concrete for construction:</p> <ul style="list-style-type: none">▲ bridges, viaducts and overpasses;▲ roads and highways surfaced with concrete;▲ runways and other airport facilities;▲ waterworks;▲ elements of the tunnels.
Advantages	<p>SikaAer® 200S used as an effective air entrainment admixture, creates a system closed and uniformly distributed in the volume of pores of a certain size, providing concrete structures high frost-resistance.</p> <p>Benefits of supplements SikaAer® 200S:</p> <ul style="list-style-type: none">▲ facilitate the monitoring of air entrainment when the dosage is changing;▲ significant increase in frost resistance of concrete, including in salt solutions;▲ increase mobility and workability of concrete mix;▲ increasing resistance to segregation of concrete mix;▲ increase water resistance of concrete;▲ increase crack resistance of concrete;▲ partial compensation of the negative impact on the concrete mix non-optimal granulometry aggregates;▲ obtaining concrete with high resistance to chemical and mechanical impacts;▲ improving the quality of the front surface of the concrete. <p>SikaAer® 200S does not contain chlorides or any other materials which promote the corrosion of steel reinforcement. It is therefore suitable for reinforced and pre-stressed concrete.</p>

Product Data

Form	A mixture of surfactants
Appearance / Color	Liquid is a light-red color
Density	1,00 – 1,02 kg/l (at 20°C)
pH value	8,0 – 9,0



Storage Conditions / Shelf Life	18 months from date of production if stored properly in undamaged and unopened original sealed containers, in dry conditions and at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.
Packaging	Non returnable 200 l drums (content 180 kg), 1000 litre IBC's Also available on tap

System Information

Consumption Dosage	0,05 – 0,5% liquid admixture by weight of cement. The dosage may vary to the big or the smaller side, depending on the requirements for concrete mix, and the optimal dosage is established based on laboratory tests.
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Application Instructions SikaAer® 200S is added to the mixing water or simultaneously with her in a mixer. To obtain a concrete mix homogeneous time mixing shall be not less 60 seconds during adjustment a production release party of concrete mix. After adjusting the mixing time in stationary mixer may be reduced by taking into account that further mixing will be done in concrete mixers.

SikaAer® 200S need to dosed separately from the other additives used in concrete mix. It is recommended to use a separate batcher.

The dosage is calculated on the basis of pre-Test-and measurement of air content in concrete mix at a construction site. The resulting value depends on the conditions of preparation of concrete mix and may vary continuously, so the amount of entrained air should be checked regularly and adjusted as necessary.

The dosage of admixture depends on:

- ▲ amounts and shape of fine aggregate particles;
- ▲ the number of fine fillers(silica fume, fly-ash and other);
- ▲ quantity, grade and type of cement;
- ▲ presence in the cement grinding intensifiers;
- ▲ mixing time;
- ▲ temperature of the concrete mix.

For the manufacture of concrete with high resistance to frost must comply with relevant regulations. Important conditions for achieving the required quality of concrete are: the amount of cement, water-cement ratio, type of filler, as well as continuous monitoring of concrete characteristics. The use of air-entraining additives SikaAer® 200S includes compliance with the rules laying concrete at a construction site for the structures with high resistance to frost.

Notes on Application / Limitations

Freeze/Thaw	If frozen and/or if precipitation has occurred, SikaAer® 200S may only be used after thawing slowly at room temperature and intensive mixing
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Compatibility	SikaAer® 200S blends well with the following materials of Sika:
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| ▲ Sika® ViscoCrete® | ▲ SikaRapid® |
| ▲ SikaPlast® | ▲ Sika® Retarder® |
| ▲ Sikament® | ▲ Sika® Stabilizer® |
| ▲ Sika® Plastiment® | ▲ Sika® Pump® |
| ▲ Sika® Antifreeze | ▲ SikaFume® |

To obtain the necessary properties of the concrete mix when using Sika® SikaAer® 200S with other additives need to holding laboratory tests to optimize the composition of the concrete mix.



Safety Instructions

Health and Safety Information	After contact with skin, wash with soap and water. In case of contact with eyes or mucous membranes, wash immediately with plenty of water and seek medical advice. 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 (MSDS) containing physical, ecological, toxicological and other safety-related data.
Ecology	Do not empty of the soil, water or sewer. Dispose of publicly-local rules.
Transportation	Non-dangerous goods
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® current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika® 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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