

Product Data Sheet

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Identification no:

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Sika® UCS-01 ZA

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Stabiliser for Concrete and Grouts

Product Description

Sika® UCS-01 ZA is a concrete and grouts admixture containing alkali resistant stabilisers used to create thixotropic anti-bleed properties in concrete and mortars. Sika®-UCS Powder prevents the washout of cements and binders in water bearing ground conditions or underwater applications.

Uses

Sika® UCS-01 ZA can be used in grouts or concrete in the following applications:

- Placement of concrete underwater
- Pumping of grouts underwater
- Anti-bleed agent.

Characteristics / Advantages

Sika® UCS-01 ZA added to a concrete or grout has the following characteristics and advantages:

- Greatly increased cohesion within the cement paste
- Increased adhesion of the cement paste with the aggregates
- Reduced bleed and segregation
- Excellent anti-washout properties
- Does not contain chlorides nor does it attack the reinforcement

Product Data

Form Alkali resistant stabiliser

Appearance / Colour Powder, whitish

Packaging 1kg and 15kg

Storage

Storage Conditions / Shelf Life 12 months from date of production if stored in original unopened, undamaged sealed containers, protected from direct sunlight and frost at temperatures between +5°C and +30°C.

Construction



Technical Data

Chemical Base

Density ~0.54 kg/l (loose bulk density)

System Information

Application Details

Dosage

Concrete:

The correct dosage must be determined by preliminary testing. Dosage is between 1.0% and 1.7% by weight of cementitious. Add the UCS-01 ZA to a dry cement – sand – aggregate mix only.

Grouts/Cement-Injection

The correct dosage must be determined by preliminary testing. Dosage is between 0.2% and 0.5% by weight of cementitious.

The following Sika® products are generally used for the basic concrete and grout mixes:

- Sika® ViscoCrete-10
 - Sika® ViscoCrete-3088
 - Sikament-NN
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Application Instructions

Mixing

The powder should be distributed onto the dry aggregates or cement. Thorough mixing is essential and mixing times are normally 50% longer than for similar mixes without Sika® UCS-01 ZA.

Notes on Application / Limitations

For underwater concrete a minimum of 300kg/m³ cement is required Sika® UCS-01 ZA in contact with water forms a slippery topping – **Take note**.

Contact your local Sika company for any additional technical support required.

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 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

Protective Measures

To avoid allergic reactions, we recommend the use of protective gloves and facial mask. In case of contact with skin or eyes, immediately wash thoroughly with plenty of water. Sika® UCS-01 ZA should not be discharged into drains, waterways or the ground.

Local regulations and health and safety advice on the packaging labels must be observed.

Ecology

Transportation Class

Important Notes

Must be disposed of as hazardous waste in accordance with local regulations. Please consult material safety data sheet. Residues of material must be removed 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 obtained from the material safety data sheet.

Toxicity

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 or access on the Internet under www.sika.co.za.



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