

## PRODUCT DATA SHEET

Sika<sup>®</sup> UCS-01 ZA

## Stabiliser for Concrete and Grouts

**DESCRIPTION**

Sika<sup>®</sup> 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<sup>®</sup>-UCS Powder prevents the washout of cements and binders in water bearing ground conditions or underwater applications.

**USES**

Sika<sup>®</sup> 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<sup>®</sup> 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 INFORMATION**

<b>Chemical Base</b>	Alkali resistant stabiliser
<b>Packaging</b>	1kg and 15kg
<b>Shelf Life</b>	12 months from date of production if stored in original unopened, undamaged sealed containers.
<b>Storage Conditions</b>	Protected from direct sunlight and frost at temperatures between +5°C and +30°C
<b>Bulk Density</b>	~0.54 kg/l (loose bulk density)

# TECHNICAL INFORMATION

## Specific Advice

For underwater concrete a minimum of 300kg/m<sup>3</sup> 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.

## Concrete Mixing Time

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.

# APPLICATION INFORMATION

## Recommended 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

## BASIS OF PRODUCT DATA

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.

## ECOLOGY HEALTH AND SAFETY

## 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, sub-

strates 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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### Product Data Sheet

Sika® UCS-01 ZA  
August 2020, Version 01.02  
021404021000000145

SikaUCS-01ZA-en-ZA-(08-2020)-1-2.pdf

