

# PRODUCT DATA SHEET

## Sika<sup>®</sup> UCS

### ANTI-WASHOUT ADMIXTURE FOR UNDERWATER CONCRETE AND MORTAR

#### DESCRIPTION

Sika<sup>®</sup> UCS is a powdered underwater/anti-washout admixture.  
Sika<sup>®</sup> UCS is made for the purpose to increase the cohesion of cementitious component in water. Sika<sup>®</sup> UCS is able to protect concrete from washout during pass through the water.

#### USES

Sika<sup>®</sup> UCS is mainly used for the following applications.

- Underwater foundation of bridge
- Breakwaters and near sea construction
- Impossible site of tamping
- Marine construction

#### CHARACTERISTICS / ADVANTAGES

Sika<sup>®</sup> UCS is composed of high-molecular compound and is able to contribute integrity of concrete placed underwater.  
Sika<sup>®</sup> UCS need to be in harmony with polycarboxylate based admixtures in order to decrease mixing water.

- Without segregation due to increase by strong cohesion.
- Not need to vibrate for compacting by extended workability.
- Minimizing water pollution because of superior anti-washout properties.

#### APPROVALS / CERTIFICATES

Conforms to the requirements of KCI AD 102

#### PRODUCT INFORMATION

<b>Composition</b>	Blended powder of viscosity modifiers and special additives
<b>Packaging</b>	2.0 Kg/M <sup>3</sup> watertight polyvinyl-bag(Sack usually contained by seven bags) Flexible possibility of quantity per unit pack at a customer's instance.
<b>Appearance / Colour</b>	White powder
<b>Shelf life</b>	12 months from date of production if stored properly unopened packing.
<b>Storage conditions</b>	Store in dry condition. Protect from direct sunlight and frost. Do keep temperature (5~35 °C)
<b>Density</b>	Around 0.5Kg/Litre

#### TECHNICAL INFORMATION

<b>Concreting Guidance</b>	Concrete included Sika <sup>®</sup> UCS must be flow than slump for reasons of viscosity.
<b>Specific Advice</b>	Do not expose concrete to continued flow of water during hardening.
<b>Concrete Mixing Time</b>	Recommand to dry mix for 30sec before addition of water.

## SYSTEMS

<b>Compatibility</b>	Do not use the naphthalenesulfonic acid for the purpose of water's reduction. Reasonable admixtures should be the kind of polycarbonate(Sika® vis-concrete® 5)
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## APPLICATION INFORMATION

<b>Recommended Dosage</b>	Usually 1 bag/M <sup>3</sup> (2.0~3.0Kg/M <sup>3</sup> )
<b>Compatibility</b>	Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations

## APPLICATION INSTRUCTIONS

### DISPENSING

- Sika® UCS should not be added to the mixing water. It can usually be added at the batching plant with the aggregate for dispersion instead.
- After dry mix, A wet mixing time is depending on the mixing conditions and mixer performance, of at least 90 seconds is recommended.

For calculation of the proper water amount, the exact dosage of the Sika® UCS/superplasticizer and the final demanded concrete properties have to be taken into account.

In all cases before application, suitability tests must be performed.

### 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.

### 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 the exact product data and uses.

### 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 MSDS 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.

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