

## PRODUCT DATA SHEET

## Sika® UW Compound-100

Stabilizer for underwater concrete and grouting mortar according to EVU 1990

**DESCRIPTION**

Sika® UW Compound-100 is used to prevent separation of fresh concrete in direct contact with water. This underwater concrete can therefore fall freely and unprotected through the water.

**USES**

- Constructive underwater concrete
- Free falling through water concrete
- Concrete for bank protection of inland waterways and rivers
- Concreting of building floor slabs in groundwater

**FEATURES**

- Sika® UW Compound-100 causes:
- Improvement of the absorption of water on the solid parts of the concrete or mortar
  - Lower internal friction between cement and aggregates

This causes in mortar and concrete:

- More homogeneous mixture
- Improved internal cohesion
- No segregation during contact with water (high erosion resistance)
- Good flowability and self-levelling
- Good sealing without additional compaction effort

**CERTIFICATES AND TEST REPORTS**

Complies with EN 934-2 Table 4 (stabilizer).  
Contains only components according to DIN EN 934-1:2008, Appendix A.1.  
Utilised in concrete with alkali-sensitive aggregate according to Alkali Guidelines Part 1, 4.3.2, paragraph (2) or (3).  
Fulfils the requirements of the DVGW work sheets W270 and W347.  
Can be utilised in all EC countries.

**PRODUCT INFORMATION**

|                            |                                                                            |
|----------------------------|----------------------------------------------------------------------------|
| Composition                | Cellulose ether                                                            |
| Packaging                  | Sack: 25 kg, 1000 kg shrink-wrapped on Euro deposit pallet; 1000 kg bigbag |
| Appearance and colour      | Powder / Light grey                                                        |
| Shelf life                 | Minimum of 1 year shelf life in sealed containers.                         |
| Storage conditions         | Protect against frost, strong sunlight and contamination.                  |
| Total chloride ion content | ≤ 0.10 %                                                                   |
| Equivalent sodium oxide    | ≤ 0.5 %                                                                    |

## APPLICATION INFORMATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                  |                    |                                   |                                 |                                  |                     |                                  |                          |                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|--------------------|-----------------------------------|---------------------------------|----------------------------------|---------------------|----------------------------------|--------------------------|----------------------------------|
| <b>Recommended dosage</b>       | 0.2 - 1.8 % of the cement mass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                  |                    |                                   |                                 |                                  |                     |                                  |                          |                                  |
| <b>Compatibility</b>            | <p>Never mix Sika® UW Compound-100 just with water.<br/>Add in with the aggregate or cement. Alternatively mix in as the last.<br/>The mixing time should be extended for at least 45 seconds in case of compulsory mixers, and for at least 90 seconds in case of free-fall mixers.<br/>Never utilise high-speed mixer because they reduce the effect or cancel it out.<br/>The addition amount is dependent on the composition of the output mixture and the desired erosion resistance:</p> <table><tr><td>With standing water</td><td>3 - 6 kg/m<sup>3</sup> concrete</td></tr><tr><td>With running water</td><td>6 - 10 kg/m<sup>3</sup> concrete</td></tr><tr><td>With free falling through water</td><td>7 - 9 kg/m<sup>3</sup> concrete</td></tr></table> <p>For grouting mortar applies:</p> <table><tr><td>Installation in dry</td><td>2 - 3 kg/m<sup>3</sup> concrete</td></tr><tr><td>Installation under water</td><td>3 - 6 kg/m<sup>3</sup> concrete</td></tr></table> | With standing water | 3 - 6 kg/m <sup>3</sup> concrete | With running water | 6 - 10 kg/m <sup>3</sup> concrete | With free falling through water | 7 - 9 kg/m <sup>3</sup> concrete | Installation in dry | 2 - 3 kg/m <sup>3</sup> concrete | Installation under water | 3 - 6 kg/m <sup>3</sup> concrete |
| With standing water             | 3 - 6 kg/m <sup>3</sup> concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                  |                    |                                   |                                 |                                  |                     |                                  |                          |                                  |
| With running water              | 6 - 10 kg/m <sup>3</sup> concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |                                  |                    |                                   |                                 |                                  |                     |                                  |                          |                                  |
| With free falling through water | 7 - 9 kg/m <sup>3</sup> concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                  |                    |                                   |                                 |                                  |                     |                                  |                          |                                  |
| Installation in dry             | 2 - 3 kg/m <sup>3</sup> concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                  |                    |                                   |                                 |                                  |                     |                                  |                          |                                  |
| Installation under water        | 3 - 6 kg/m <sup>3</sup> concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                  |                    |                                   |                                 |                                  |                     |                                  |                          |                                  |
| <b>Dispensing</b>               | An initial test according to DIN EN 206-1/DIN 1045-2 is required before use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                                  |                    |                                   |                                 |                                  |                     |                                  |                          |                                  |

## 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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 the 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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