

# PRODUCT DATA SHEET

## Sika® Pump

### UNIVERSAL PUMPING ADMIXTURE

#### DESCRIPTION

Sika® Pump is a universal concrete admixture used to improve concrete mixes, to protect concrete pumps and pipes from excessive wear, decrease pump pressure and reduce pumping time.

#### USES

Sika® Pump is recommended for concrete mixes with varying fines content, low cement content or unsatisfactory aggregate grading. These conditions tend to cause bleeding of the fresh concrete, leading to segregation during pumping which tends to lead to extremely high pump pressures.

The use of Sika® Pump also allows for secondary raw materials such as aggregates derived from excavation or demolition work to be utilized.

Concrete made with this type of aggregate can be pumped without excessive pump pressure.

#### CHARACTERISTICS / ADVANTAGES

- Increase cohesion and workability
- Improve the ease of placing of fresh concrete
- Noticeably improve the ability of pumping of difficult concrete mixes
- Avoid interrupted by stoppages of pumping concrete due to blockages in the pipes etc
- Extend the working life of concrete pumps and pipes

#### PRODUCT INFORMATION

Chemical base	Solution of polymer viscosity regulators
Packaging	5 / 25 / 200 L drum
Appearance / Colour	Liquid / Blue
Shelf life	Min. 6 months if stored properly in original unopened packaging
Storage conditions	Dry, cool, shaded place
Density	0.980–1.104

#### TECHNICAL INFORMATION

##### Specific Advice

**Addition:** Sika® Pump should be added at the concrete batching plant. Addition must be added after the gauging water is added to the cement gravel mix (do not add to the dry mix). The optimal effect of Sika Pump will be achieved with a wet mixing time of 90 seconds. Sika® Pump slightly influences the viscosity of the concrete mix. The power of the mixing motor must be slightly increased in comparison to the basis concrete mix of identical W/C ratio.

**Concrete placing:** Sika® Pump is normally used with a retarder or super-plastiziser, the properties of which will not be adversely affected. The use of Sika Pump in combination with Plastiment or Sikament superplastiziser will ensure that high quality concrete will be produced. Nevertheless, standard practices for good concrete productions as well as concrete placing must be strictly adhered to when using Sika Pump. The fresh concrete must be properly cured.

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## APPLICATION INFORMATION

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### Recommended Dosage

0.2 %–0.4 % by weight of cement to increase the cohesion of difficult concrete mixes. 0.5 %–1.0 % by weight of cement to reduce the pump pressure and compensate for missing fine aggregate fractions in the mix. Preliminary testing is required to determine the exact dosage for your specific conditions. Please contact Sika technical service for more information and assistance.

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## IMPORTANT CONSIDERATION

Sika® Pump is compatible with other Sika admixtures products. Please contact Sika Technical Services Department for any further advice or assistance. Trials are recommended for combinations of Sika® Pump with other admixtures.

## 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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 Safety Data Sheet (SDS) 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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