

# PRODUCT DATA SHEET

## Sika® Pump

### PUMPING AID FOR CONCRETE

#### DESCRIPTION

Sika® Pump is a universal concrete admixture to improve the pumpability of difficult concrete mixes and protect concrete pumps and pipes from excessive wear.

#### USES

- Sika® Pump is mainly used for concrete mixes with variable fines, a low cement content or a poor particle size distribution (granulometry) and consequent low water retention capacity i.e. mixes which tend to segregate when pumped and/or create very high pump pressures.
- Even contaminated aggregates (i.e. with dirt and debris) can be pumped without excessive pump pressure by using Sika® Pump.

#### CHARACTERISTICS / ADVANTAGES

- Sika® Pump greatly increases the internal cohesion, plasticity and flexibility of the fresh concrete. This gives a considerable improvement in the workability and particularly the pumping characteristics of concrete mixes. Disjointed, jerky concrete pumping is greatly reduced or prevented and pump efficiency is significantly improved.
- The stress on the pipes and the concrete pump is reduced with Sika® Pump and their life is extended.
- Sika® Pump has no negative effects on the hardened concrete properties.
- Sika® Pump does not contain chlorides or any other substances that cause reinforcement corrosion and can be used without restriction for reinforced and prestressed concrete structures.

#### PRODUCT INFORMATION

Chemical Base	Solution of polymer viscosity regulators
Packaging	20 litres, 200 litres and bulk delivery
Appearance / Colour	Light green liquid
Shelf Life	6 months from date of production if stored in original, undamaged and sealed containers.
Storage Conditions	Storage at temperatures between +5°C and +35°C. Protect from direct sunlight, frost and contamination. Frozen Sika® Pump can be reused after slowly defrosting at room temperature followed by thorough stirring.
Density	~1.01 kg/L
pH-Value	~9
Viscosity	~50 mPa s at 20°C
Total Chloride Ion Content	≤0.1 %
Equivalent Sodium Oxide	≤1.0 %

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.2% - 0.4% by weight of cement to increase the cohesion of difficult concrete mixes. 0.5% - 1.5% 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.
<b>Dispensing</b>	Sika® Pump is added to the cement / aggregate mix at the batching plant after the mixing water. Do not add to a dry mix! Sika® Pump achieves its maximum effect after a wet mixing time of 90 seconds. Sika® Pump changes the viscosity of the concrete mix somewhat, requiring a slightly higher mixer load than the basic mix at the same w/c ratio.

## 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

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. 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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