

PRODUCT DATA SHEET

Sika® Pump

Liquid concrete pumping admixture

DESCRIPTION

Sika® Pump is a liquid concrete admixture to improve the pumpability of difficult concrete mixes. It improves the workability of the concrete which improves the concrete pump efficiency and protects the pump and pipes from excessive wear.

USES

- Concrete mixes with variable fines, a low cement content or a poor particle size distribution (granulometry) which tend to segregate when pumped and/or create very high pump pressures.
- Concrete mixes with contaminated aggregates containing dirt and debris

CHARACTERISTICS / ADVANTAGES

- Increases the internal cohesion, plasticity and flexibility of the fresh concrete
- Reduces the wear and increases the life of the concrete pump and pipes
- Improves the pumping efficiency
- Reduced segregation and bleeding
- No negative effects on the hardened concrete properties
- Does not contain chlorides or any other substances which promote steel corrosion

PRODUCT INFORMATION

Chemical Base	Aqueous solution of polymeric viscosity regulators
Packaging	Drum IBC Refer to current price list for packaging variations
Appearance / Colour	light yellowish liquid
Shelf Life	24 months from date of production if stored in original, undamaged and sealed containers.
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.
Density	~1,01 kg/L
pH-Value	~9
Conventional Dry Material Content	~4 %
Viscosity	~50 mPa·s at 20 °C
Total Chloride Ion Content	≤ 0,1 %

TECHNICAL INFORMATION

Concreting Guidance

- The standard rules of good concreting practice, concerning production and placing must be followed.
- Laboratory trials must be carried out before concreting on site, especially when using a new mix design or producing new concrete components.
- Fresh concrete must be cured properly and curing applied as early as possible.

Concrete Mix Design

- The quantity of Sika® Pump in the mix design must be taken into consideration when determining the quantity of water for a specific w/c-ratio.
- When using Sika® Pump, a suitable mix design must be calculated.
- The local material sources used within the mix design must always be trialled and approved for suitability before commencement of the project.

APPLICATION INFORMATION

Recommended Dosage

Important: Preliminary testing is required to determine the exact dosage for the specific concreting conditions. Contact Sika Technical Services for additional information.

Increase the cohesion of difficult concrete mixes

~0,2 % to 0,4 % by weight of cement

Reduce the pump pressure and compensate for missing fine aggregate fractions in the mix

~0,5 % to 1,5 % by weight of cement

Dispensing

- Sika® Pump is added to the cement / aggregate mix in the batching plant concrete mixer after the addition of the gauging water. Do not add to a dry mix.
- A wet mixing time after the addition of Sika® Pump at the batching plant of at least 90 seconds is recommended (dependant on mixing conditions and mixer performance).
- Sika® Pump changes the viscosity of the concrete mix and requires 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.

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.

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.

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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