

## PRODUCT DATA SHEET

# Sika® Stabilizer Light-100

### POWDERED ADMIXTURE FOR LIGHTWEIGHT CONCRETE

#### PRODUCT DESCRIPTION

Sika® Stabilizer Light-100 is a powdered admixture for the production of lightweight concrete and mortar.

#### USES

Sika® Stabilizer Light-100 is suitable for site mixed concrete as well as ready mixed concrete. Sika® Stabilizer Light-100 is used for the production of lightweight concrete for the following applications:

- Filling of trenches and pipes
- Thermal and acoustic insulation
- Lightweight screeds

#### CHARACTERISTICS / ADVANTAGES

The benefits of Sika® Stabilizer Light-100 include, but are not limited to the following:

- Up to 35% air entrainment possible
- Stable air content, even after concrete placement
- Pumping of the mix is possible
- Dry density of 800 – 2000kg/m<sup>3</sup> is possible with lightweight aggregates
- Easy dispensing due to watersoluble bags
- Use of lightweight aggregates i.e. expanded clay

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Tenside
<b>Packaging</b>	Pail with 20 bags (0.5kg water-soluble bags)
<b>Appearance / Colour</b>	Light grey powder
<b>Shelf Life</b>	18 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
<b>Storage Conditions</b>	Storage at temperatures between 5 °C and 40 °C in a dry area. Protect from direct sunlight, frost and contamination.
<b>Density</b>	~2680 kg/m <sup>3</sup>
<b>Total Chloride Ion Content</b>	< 0.1%
<b>Equivalent Sodium Oxide</b>	< 1.0%

#### TECHNICAL INFORMATION

## Concreting guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed.

Laboratory trials shall 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.

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## APPLICATION INFORMATION

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### Recommended Dosage

1 bag/m<sup>3</sup>

### Compatibility

Sika® Stabilizer Light-100 may be combined with many other Sika® products.

Note:

Always conduct trials before combining products in specific mixes and contact Sika® technical service for more information and advice.

### Dispensing

Sika® Stabilizer Light-100 can be added directly to a truck mixer or at the batching plant with the aggregate or cement to support dispersion. A wet mixing time at the batching plant, which is depending on the mixing conditions and mixer performance, of at least 90 seconds is recommended. When added directly to a truck mixer, the mixer shall rotate its drums at maximum revolutions for at least 1 minute per m<sup>3</sup> concrete and a minimum of 5 minutes to achieve a uniform mix.

### Restrictions

The efficiency of Sika® Stabilizer Light-100 is based upon the entrainment into the mix of the necessary quantity of air pores during the mixing process. Physical properties of the mix such as density, air pore content and compressive strength depend on the composition of the aggregate, their partial replacement with lightweight aggregates, water content, binder content and mixing times.

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## LIMITATIONS

When using Sika® Stabilizer Light-100 a suitable mix design has to be taken into account and local material sources shall be tested.

## VALUE BASE

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.

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Product Data Sheet  
Sika® Stabilizer Light-100  
January 2019, Version 01.01  
021304011000000057

SikaStabilizerLight-100-en-GB-(01-2019)-1-1.pdf

