

## PRODUCT DATA SHEET

# SikaPlast<sup>®</sup>-101 LB

Water reducing and retarding super plasticizing admixture for concrete.

### DESCRIPTION

SikaPlast<sup>®</sup>-101 LB is the latest development of superplasticizer for concrete. A unique multipurpose superplasticiser that is particularly suitable for the production of ready mixed concrete. Additionally, it provides high water reduction and improved fresh concrete characteristics. Suitable for use in hot and tropical climatic conditions.

### USES

- A wide range of applications where excellent workability is required.
- Concrete with high water reduction
- Highly efficient concrete applications
- Variable use in different concrete systems with different raw materials

### CHARACTERISTICS / ADVANTAGES

SikaPlast<sup>®</sup>-101 LB is a powerful superplasticiser based on advanced technology which gives the following advantages:

- Strong water reduction, resulting in high density, high strength, and reduced Permeability.
- Less sensitive against variations in aggregates and / or different cement types
- High efficiency even at low dosage rates
- Extended workability in conjunction with subsequent strength development
- Superior plasticising effect, resulting in improved flow, placing and compaction Characteristics.

### APPROVALS / CERTIFICATES

### PRODUCT INFORMATION

|                                   |   |
|-----------------------------------|---|
| <b>Composition</b>                | Aqueous solution of modified polycarboxylates, co-polymers  |
| <b>Packaging</b>                  | Bulk supply   |
| <b>Appearance / Color</b>         | Light yellowish   |
| <b>Shelf life</b>                 | 12 months from date of production if stored properly.   |
| <b>Storage conditions</b>         | Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost. |
| <b>Density</b>                    | ~1.04 kg/l ± 0.015 (+25 °C)   |
| <b>Total chloride ion content</b> | Nil   |

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June 2023, Version 01.0

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## TECHNICAL INFORMATION

|                            |   |
|----------------------------|---|
| <b>Concreting guidance</b> | 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. |
|----------------------------|---|

## APPLICATION INFORMATION

|                           |  |
|---------------------------|--|
| <b>Recommended dosage</b> | 0.5 – 2 % by weight of cement. Optimum dosage must be finalized through site trials.   |
| <b>Compatibility</b>      | SikaPlast®-101 LB may be combined with all types of Portland cement (OPC and SRC), concretes containing pozzolanic materials such as GGBS, PFA, micro-silica. Not compatible with admixtures based on sulfonated naphthalene or melamine.  |
| <b>Dispensing</b>         | SikaPlast®-101 LB is added to the gauging water or added with it into the concrete mixer. To take advantage of the high-water reduction, a wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended. To avoid excess water in the concrete, the final dosage must begin only after 2/3 of the wet mixing time |

## IMPORTANT CONSIDERATIONS

When using SikaPlast®-101 LB a mix design must be selected for the local material sources used and trial mixes performed to verify suitability. If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing. SikaPlast®-101 LB should not be added to dry cement. Before pouring, suitability tests on the fresh concrete must be carried out. In case the setting time of concrete is extended, if cured properly, other properties may not be affected, and higher ultimate strength is visualized. SikaPlast® products are not compatible with admixtures based on sulfonated naphthalene or melamine.

## 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.

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## 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.

## LOCAL RESTRICTIONS

Note that because 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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