

# PRODUCT DATA SHEET

## SikaPlast®-250

HIGH PERFORMANCE SUPERPLASTICIZER FOR CONCRETE



### DESCRIPTION

SikaPlast®-250 is a new generation superplasticizer & high range water reducer for concrete.

### USES

SikaPlast®-250 is a multiple use superplasticizer, especially suitable for ready mix production units. It enables high range water reduction and contributes in obtaining an improved concrete mix. It is used:

- For Ready Mix concrete
- For concrete with high water reduction
- In cases of high demand concrete applications
- In cases of applications in job sites that demand various concrete strength types per application, using different mixtures and raw materials

### CHARACTERISTICS / ADVANTAGES

SikaPlast®-250 is a powerful superplasticizer, based on innovative polymer technology, offering the following advantages:

- High water reduction, resulting in dense concrete, high strengths and reduced permeability
- Produces mixtures less sensitive towards the differentiation of aggregates and/ or towards different cement types
- Has high performance even in low dosages
- Offers high plasticity, resulting in improved flowability, casting and compaction
- Reduced shrinkage during curing and reduced creep in hardened concrete
- Offers many possibilities to optimize the cost of a mix design, such as:

1. Use of more than one cement types / cement reduction
2. More economic mix design

SikaPlast®-250 does not contain chloride ions and is therefore suitable for reinforced and prestressed concrete

### APPROVALS / CERTIFICATES

High range water reducing / superplasticizing admixture (Tables 3.1 & 3.2) according to EN 934.02:2009+A1:2012, Declaration of Performance 42475323, and provided with the CE-mark.

### PRODUCT INFORMATION

<b>Chemical base</b>	Aqueous solution of modified polycarboxylate polymers
<b>Packaging</b>	IBC, 220 kg drums, 20 kg containers. Bulk supply on demand.
<b>Appearance / Colour</b>	Liquid, brown
<b>Shelf life</b>	8 months from date of production

<b>Storage conditions</b>	Store properly in original, sealed, undamaged packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.
<b>Density</b>	~ 1.11 kg/l (at +20°C)
<b>pH-Value</b>	7.0 – 9.0 (at +20°C)
<b>Total Chloride Ion Content</b>	Free (EN 934.01)

## TECHNICAL INFORMATION

<b>Concreting Guidance</b>	The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Laboratory trials should take place before adopting a mix on site, especially in cases of a new mix design or in cases of new raw materials. Fresh concrete must be cured properly.
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## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.5 – 2.0% by weight of cement
<b>Compatibility</b>	SikaPlast®-250 may be combined with the following Sika products: - Sika® Plastiment® series - Sikament® series - Sika® Plastocrete® N/ Sika®-1+/ Sika® WT-200 P - Sika® Ferrogard®-901 S - Sika® Visco I-100 - Sikafume® HR-E / Sikacrete® AR - Sika-Aer® Fine Trials are recommended before combining products.
<b>Dispensing</b>	SikaPlast®-250 is added to the gauging water at the plant or added on-site into the concrete mixer. In order to fully take advantage of the possibilities that the material offers, a mixing time of at least 60sec / m <sup>3</sup> is recommended, which can be modified depending on the mixing conditions and the mixer.
<b>Restrictions</b>	<ul style="list-style-type: none"> <li>▪ When using SikaPlast®-250 a suitable mix design has been taken into account and local material sources should be trialled.</li> <li>▪ SikaPlast®-250 should not be added to dry cement.</li> <li>▪ SikaPlast®-250 should be added with the mixing water or introduced at the end of the mixing process.</li> <li>▪ Before application, suitability tests must be performed.</li> </ul>

## 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.

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