

PRODUCT DATA SHEET

SikaPlast®-800

High efficiency superplasticizer for workability maintenance

DESCRIPTION

SikaPlast®-800 is a new generation, high performance superplasticizer that offers workability maintenance.

USES

SikaPlast®-800 is a multipurpose superplasticizer that is particularly suitable for the production of ready mixed concrete. Additionally it provides high water reduction and improved fresh concrete characteristics.

SikaPlast®-800 is used for the following applications:

- In cases of demands for high workability
- Concrete with high water reduction
- Highly efficient concrete applications
- Ready Mix Concrete production
- Variable use in different concrete systems with different raw materials

CHARACTERISTICS / ADVANTAGES

SikaPlast®-800 is a powerful superplasticizer based on advanced technology which offers the following advantages:

- High water reduction, resulting in more dense concrete with increased strengths and reduced permeability
- Mixes that are less sensitive against variations in aggregates and / or different cement types
- Is very efficient even at low dosage rates
- Prolonged workability
- Superior plasticizing effect, resulting in improved flow, placing and compaction characteristics
- Reduced shrinkage during curing and reduced creep when hardened
- Many opportunities for cost improvement e.g.:

1. Cement replacement / reduction

2. More economic mix design

SikaPlast®-800 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and pre-stressed concrete structures.

APPROVALS / STANDARDS

Set retarding / high range water reducing / super plasticizing admixture (Tables 11.1 & 11.2) according to EN 934.02:2009+A1:2012, Declaration of Performance 18280117, and provided with the CE-mark.

PRODUCT INFORMATION

Chemical Base	Aqueous polymer solution
Packaging	IBC, 210 kg drums, 20 kg containers. Bulk supply on demand.
Appearance / Colour	Liquid, brown
Shelf Life	8 months from date of production
Storage Conditions	Store properly in undamaged, unopened, original sealed packaging, in dry

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conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Density	~ 1.07 kg/l (at +20°C)
pH-Value	4.0 – 6.0 (at +20°C)
Total Chloride Ion Content	Free (EN 934.01)

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

Recommended Dosage	0.3-1.8% by weight of cement. For normal demands use 0.3-1.2% and in case of increased demands use 1.3-1.8%.
Compatibility	SikaPlast®-800 can be combined with the following Sika products: - Sika® Plastiment® series - Sika® ViscoCrete® 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 In all cases, it is recommended to conduct trial tests before combining products.
Dispensing	SikaPlast®-800 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 depends on the mixing conditions and mixer performance of at least 60sec/m ³ is recommended.
Restrictions	<ul style="list-style-type: none">▪ When using SikaPlast®-800, a suitable mix design has to be taken into account and local material sources shall be trialled.▪ If frozen, SikaPlast®-800 can be used again after being slowly thawed at +30°C and remixed intensively.▪ SikaPlast®-800 shall not be added to dry cement.▪ Before application, it is recommended to conduct suitability tests.▪ In case of combining SikaPlast®-800 with retarding admixtures or in cases of high dosage, the setting time of concrete may be prolonged.

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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