

**BUILDING TRUST** 

# PRODUCT DATA SHEET SikaPlast<sup>®</sup>-176 LK

#### PCE BASED SUPERPLASTICIZING AND SET RETARDING CONCRETE ADMIXTURE

#### DESCRIPTION

SikaPlast<sup>®</sup>-176 LK is a 3rd generation polymer based high performance superplasticizer for producing soft consistency concrete. SikaPlast<sup>®</sup>-176 LK meets the requirements of ASTM C 494 Type D, and BS EN 934-2

#### USES

SikaPlast<sup>®</sup>-176 LK is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete. SikaPlast<sup>®</sup>-176 LK is used for the following types of concrete:

- Bored piles
- Barrette foundations and diaphragm walls
- Ground and suspended slabs
- Columns and walls
- Bridges and cantilever
- Cement mortar and grouts

#### **FEATURES**

SikaPlast<sup>®</sup>-176 LK combines different modes of actions. By adsorption on the surface of the fines and keeping them apart while the hydration is in progress, Sika-Plast<sup>®</sup>-176 LK effects the following concrete properties:

- Long slump keeping and high water reduction
- High flowability (considerably reduced placing and compacting work)
- Faster evolution of early strength development

 Improved creep and shrinkage resistance characteristics

• When used at higher dosages, SikaPlast®-176 LK can give extended working time.

SikaPlast<sup>®</sup>-176 LK contains neither chlorides nor other corrosion inducing substances and can therefore be used without any restrictions for reinforced concrete structures.

## PRODUCT INFORMATION

Packaging	1000 L (IBC)
Shelf life	12 months if stored properly in original unopened packaging
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperat- ures between +5 °C and +40 °C
Appearance and colour	Liquid / brownish colour
Density	1.10 kg/l (at 25°C) EN 934-2:2001 (E) D ± 0,03 if D > 1,10 D ± 0,02 if D £ 1,10 where D is manufacturer's stated value Test method - ISO 758
pH-Value	5.00 (at 25 °C) EN 934-2:2001 (E) Manufacturer's stated value ±1 or within manufacturer's stated range Test method - ISO 4316

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#### **APPLICATION INFORMATION**

Recommended dosage	0.5 – 2 L per 100 kg of cement
Compatibility	SikaPlast <sup>®</sup> -176 LK may be combined with all Sikament, Sika <sup>®</sup> Aer, Sika <sup>®</sup> Pump, Sikacrete <sup>®</sup> PP-1 products, but must be added separately to the mix and not premixed prior its addition. SikaPlast <sup>®</sup> -176 LK is compatible with all Portland cement types.

#### **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.

## ECOLOGY, HEALTH AND SAFETY

Protective Measures: Avoid prolonged contact with skin. Wash off thoroughly with soap water. In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay. Avoid contact with food stuff and utensils.

Ecology/ Waste disposal: Do not dispose of into water or soil, but according to local regulations. Transportation: Non-hazardous

Toxicity: Non-toxic

## LOCAL RESTRICTIONS

Note that as a result 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 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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