BUILDING TRUST

PRODUCT DATA SHEET

SikaPlast®-168 SL

PCE BASED SUPERPLASTICIZING AND SET RETARDING CONCRETE ADMIXTURE

DESCRIPTION

SikaPlast®-168 SL is a 3rd generation polymer based high performance superplasticizer for producing soft consistency concrete.
SikaPlast®-168 SL meets the requirements of ASTM C 494 Type D - G and BS EN 934 - 2

USES

SikaPlast®-168 SL is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete. SikaPlast®-168 SL 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

CHARACTERISTICS / ADVANTAGES

SikaPlast®-168 SL 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®-168 SL 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®-168 SL can give extended working time.

SikaPlast®-168 SL contains neither chlorides nor other corrosion inducing substances and can therefore be used without any restrictions for reinforced concrete structures.

PRODUCT INFORMATION

Composition	Modified Poly carboxylate in water
Packaging	1000 L
Appearance / Colour	Liquid / brownish colour
Shelf life	12 months if stored properly in original unopened packaging.
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +40 °C
Density	1.070–1.110 kg/l (at 20 °C)
pH-Value	4.00–6.00 (at 25 °C)

TECHNICAL INFORMATION

Concreting guidance	Concrete placing: With the use of SikaPlast®-168 SL , concrete of highest quality is being produced, however state of the art concrete technology, such as mixing, placing vibrating and curing must be respected and applied. Curing: Effective measures for concrete curing must be followed.
Specific advice	SikaPlast®-168 SL is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix. For optimum utilization of the ultra-high range water reducer we recommend a minimum wet mixing time of 60 seconds.When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

APPLICATION INFORMATION

Recommended dosage	0.5 – 2 L per 100 kg of cement
Compatibility	SikaPlast®-168 SL may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and not premixed prior its addition. SikaPlast®-168 SL is compatible with all Portland cement types.
Restrictions	Overdosing will result in increased workability and set-ting time of the Concrete, however, provided that curing is effective, ultimate concrete strength and properties will not be affected. Use an appropriate concrete mixer and do not mix by hand. Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

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 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 the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

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.

Sika Lanka (Private) Limited
No. 58/12-B
Raja Mawatha
Ekala, Ja-Ela
Sri Lanka