

PRODUCT DATA SHEET

SikaPlast®-3689

HIGH PERFORMANCE MID TO HIGH RANGE SUPERPLASTICISER

DESCRIPTION

SikaPlast®-3689 is a third generation mid – high range superplasticiser for RMX concrete.

USES

SikaPlast®-3689 is a unique multipurpose superplasticiser that is particularly suitable for the production of ready mixed concrete. It provides high water reduction and excellent slump retention characteristics.

With its outstanding combination of workability time and early strength development SikaPlast®-3689 is used for the following:

- A wide range of applications where excellent workability and early strength development are required
- Concrete with medium - high water reduction (15–25 %)
- Medium - high strength concrete

CHARACTERISTICS / ADVANTAGES

SikaPlast®-3689 is a powerful superplasticiser based on advanced technology which gives the following advantages:

- High water reduction, resulting in high density, high strength and reduced permeability
- Excellent plasticising effect, resulting in improved flow, placing and compaction characteristics
- Reduced shrinkage during curing and reduced creep when hardened
- Provides many opportunities for cost improvement, e.g.:
 - Cement reduction
 - More economic mix design

SikaPlast®-3689 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

PRODUCT INFORMATION

Composition	Modified polycarboxylate
Packaging	<ul style="list-style-type: none"> ▪ 200 L drum ▪ 1 000 L tank
Appearance / Colour	Turbid liquid
Shelf Life	12 months from date of production
Storage Conditions	Store properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost.

APPLICATION INFORMATION

Recommended Dosage	Medium workability	0.4–1.3 % by weight of cement
	Concrete with high workability, very low water/cement ratio and for SCC with high slump retention	1.4–2.0 % by weight of cement

Compatibility

SikaPlast®-3689 may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

APPLICATION INSTRUCTIONS

DISPENSING

SikaPlast®-3689 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 of at least 60 seconds is recommended.

IMPORTANT CONSIDERATIONS

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before actual concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible. Excessive water addition or overdosing may cause bleeding or segregation. If frozen and/or if precipitation has occurred, SikaPlast®-3689 may be used after thawing slowly at room temperature followed by intensive remixing.

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 recommenda-

tions 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 Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate, 71800 Nilai
Negeri Sembilan D.K., Malaysia
Phone: +606-7991762
Fax: +606-7991980
e-mail: info@my.sika.com
Website: www.sika.com.my



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