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PRODUCT DATA SHEET SikaPlast[®]-156 G

Concrete Admixture for Precast Concrete & Semi-Dry Concrete Application

DESCRIPTION

SikaPlast[®]-156 G is a third generation polycarboxylate based superplasticizer for concrete. It has been particularly developed for use in precast concrete to give extended slump retention and high early strength development of concrete mixes. SikaPlast[®]-156 G is suitable for use in concrete mixes containing microsilica and other pozzolanic materials such as GGBS and fly ash. Suitable for use in hot and tropical climatic conditions.

USES

SikaPlast[®]-156 G facilitates extreme water reduction, with optimum cohesion and workability as required, just by adjusting the dosage. It is used mainly to the following types of concrete:

- Precast concrete structures in general
- Precast concrete tunnel segments
- Pre-stressed concrete elements
- Post-tensioned concrete bridge segments
- Piles, foundations, retaining walls etc.
- Mixes containing steel fiber (SFRC) and synthetic fibers

• Concrete with high water reduction that requires high workability, slump retention along with high early strength development

Blocks and Interlocks

CHARACTERISTICS / ADVANTAGES

SikaPlast®-156 G acts by surface absorption on the cement particles producing sterical hindrance as well as electrostatic repulsion between cement particles which results in higher dispersion, flow and retention. SikaPlast®-156 G provides the following beneficial properties:

- Increased working time
- Early strength development resulting in economic
- stripping time for pre-cast and cast-in-situ concrete
- High water reduction resulting in high density, high strength and reduced water permeability
- Excellent plasticizing effect giving improved flowability, placing and compaction behavior
- Improved surface finish
- Better shrinkage and creep behaviour
- Low risk of segregation
- Reduces energy costs for steam cured pre-cast elements

 Does not contain chlorides or other steel corrosion promoting ingredient

APPROVALS / CERTIFICATES

SikaPlast®-156 G follows the requirements of ASTM C494; Type F and EN 934-2

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers	
Packaging	1000 L flowbins Bulk supply in tanker trucks is possible on request	
Shelf life	12 months from date of production if stored properly	
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost	
Appearance and colour	Light brown to brown liquid	

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~1.03 kg/l (25 °C)		
Nil (EN 934-2		
The standard rules of good concreting practice for production and placing must be observed when using SikaPlast®-156 G in concrete. Refer to relev- ant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.		
N		
0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used dep design, raw materials, climatic conditions and concr mixes must be performed to establish the exact dos	rete requirements. Trial	
SikaPlast [®] -156 G is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add Sika- Plast [®] -156 G directly to the dry mix. For optimum utilization of its high water reduction property we recom- mend thorough mixing at a minimal wet mixing time of 60 seconds. The addition of the remaining gauging water (to fine tune concrete consist- ency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete.		
SikaPlast®-156 G may be combined with all types of the following Sika products: • SikaPump® • Sika® FerroGard®-901 • SikaFume® • SikaFiber® • Sika Aer® • Sika Aer® • Sika® Stabilizer • Sika®-1 WT • SikaControl®-11 WT AE We recommend performing trial mixes to establish	the required perform-	
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Technical Department.

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.

IMPORTANT CONSIDERATIONS

When using SikaPlast®-156 G a mix design must be selected for the local material sources used and trial mixes performed to verify suitability.

If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.

SikaPlast[®]-156 G should not be added to dry cement. Before pouring, suitability tests on the fresh concrete must be carried out. Due to the extended workability take special care that formwork is properly installed and secured. In case the setting time of concrete is extended, if cured properly, other properties may not be affected, and higher ultimate strength is visualized. SikaPlast[®] products are not compatible with admixtures based on sulfonated naphthalene or melamine.

ECOLOGY, HEALTH AND SAFETY

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ance when combined with the above products. Please consult our Sika

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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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.

SIKA NORTHERN GULF

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All products are supplied unda management system certific is LLC to conform to the requiremen of the quality, ernironmental and occupational health & safety standards ISO 9001, is LLC, ISO 14001 and ISO 45001.

SIKA SOUTHERN GULF

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