

PRODUCT DATA SHEET

SikaPlast[®]-257

PCE Based Superplasticizing and Set Retarding Concrete Admixture

DESCRIPTION

SikaPlast[®] -257 is a third generation polymer based high performance superplasticizer for producing soft consistency concrete.

USES

SikaPlast[®] -257 is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete. SikaPlast[®] -257 is used for the following types of concrete :

- High strength bored piles
- Bridges and cantilever
- Slender components with dense reinforcement

CHARACTERISTICS / ADVANTAGES

SikaPlast[®] -257 combines different modes of actions. By adsorption on the surface of the fines and keeping them apart while the hydration is in progress.

SikaPlast[®] -257 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
- Workability can be maintained up to 4 hours (still depends on admixture dosage, cement type, temperature, W/C)
- Improved creep resistance and shrinkage resistance characteristics

SikaPlast[®] -257 contains neither chlorides nor other corrosion-inducing substances and can therefore be used without any restrictions for reinforced concrete structures.

APPROVALS / CERTIFICATES

Complies with ASTM C 494 Type A&G

PRODUCT INFORMATION

Packaging	200 l/ drum 1,000 l/ tote or bulk
Appearance / Colour	Brownish Liquid
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in dry conditions, protected from direct sunlight at temperature between 5°C and 30°C.
Density	1.110 - 1.135 kg/ l (at temperature 25°C)
pH-Value	4.5 - 6.5 Approx.

APPLICATION INFORMATION

Recommended dosage	0.6 -1.6 l per 100 kg of cement or cementitious weight. Typical 0.8 - 1.2 l per 100 kg of cement or cementitious weight.
Compatibility	SikaPlast® -257 may be combined with all Sikament®, Sika® Aer, SikaPump®, Sikacrete® PP1 products, but must be added separately to the mix and not pre-mixed prior its addition. SikaPlast® -257 is compatible with all Portland Cement types.
Dispensing	SikaPlast® -257 is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix. For optimum utilisation 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.
Restrictions	With the use of SikaPlast® -257 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.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

IMPORTANT CONSIDERATIONS

Overdosing will result in increased workability and setting 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. Trials mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

Effective measures for concrete curing must be followed.

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.

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