

PRODUCT DATA SHEET

SikaPlast®-257 MM

PCE BASED SUPERPLASTICING AND SET RETARDING CONCRETE ADMIXTURE

DESCRIPTION

SikaPlast® -257 MM is a third generation polymer based high performance superplasticizer for producing soft consistency concrete. Sika Plast®-257 MM meets the requirements of ASTM C 494 Type D & G.

USES

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

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

FEATURES

SikaPlast® -257 MM 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 MM 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 MM 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	200 l/ PE drum 1,000 l/ IBC Tank
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.
Appearance and colour	Brownish Liquid
Specific gravity	1.055-1.095 kg/l
pH-Value	4.5 - 6.5

TECHNICAL INFORMATION

Concreting guidance

With the use of SikaPlast® -257 MM 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.

Specific advice

SikaPlast® -257 MM 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.

APPLICATION INFORMATION

Recommended dosage

0.6 -2.0 l per 100 kg of cement or cementitious weight.
Typical 0.7 - 1.2 l per 100 kg of cement or cementitious weight.
Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements.
Trial mixes must be performed to establish the exact dosage rate required.

Compatibility

SikaPlast® -257 MM may be combined with all Sika® Aer, SikaPump®, Sikacrete® PP1 products, but must be added separately to the mix and not pre-mixed prior its addition. SikaPlast® -257 MM 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.

LIMITATIONS

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.

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.

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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