

PRODUCT DATA SHEET

SikaPlast® PH 3536

Next generation superplasticizer for the production of high-quality ready-mix concrete with low water cement ratio and enhanced rheology

DESCRIPTION

SikaPlast PH 3536 is part of a range of latest generation superplasticizers formulated from unique polymers manufactured in-house by Master Builders Solutions. It is specially engineered for ready-mix concrete. SikaPlast PH 3536 is differentiated from conventional superplasticisers, such as those based on sulphonated naphthalene formaldehyde condensate in that it is based on unique polymers with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process the same electrostatic dispersion occurs but the presence of the lateral chains, linked to the polymer backbone, generate a steric hindrance which stabilises the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand.

USES

The ready-mix producer:

- Capability of delivering high performance concrete at any time to the job site in place
- Production of a concrete with low water cement ratios with excellent workability retention properties.
- Single product for many application needs
- **The contractor / applicator:**
 - Easier placing and faster strength development
 - Improved concrete surfaces
 - Guarantee to place the same concrete as specified and ordered from ready-mix plant
- **The engineer:**
 - Insurance that concrete meets original specification

- High quality durable concrete
- greatly reduced water demand.

FEATURES

Capability of delivering high performance concrete. Production of a concrete with low water cement ratios with excellent workability retention properties.

- A versatile product for many application requirements.
- Easier placing and faster strength development.
- Improved concrete surfaces.
- Insurance that concrete meets original specification.
- High quality durable concrete.

PRODUCT INFORMATION

Packaging	SikaPlast® PH 3536 is available in 1000 litre IBCs or in bulk.
Colour	Dark Brown
Shelf life	The shelf life is 12 months from date of manufacture when stored correctly.
Storage conditions	SikaPlast® PH 3536 should be stored out of direct sunlight and protected from extremes of temperatures. The occurrence of a surface layer with SikaPlast® PH 3536 is normal and will have no effect on the performance of the product
Density	1.15 +/- 0.01
pH-Value	5.5 +/- 1
Recommended dosage	The normally recommended dosage rate of SikaPlast PH 3536 is 0.80 - 2.50 L/100kg of total cementitious material. Other dosages may be recommended in special cases according to the specific site conditions. In this case please consult our Technical Services Department for advice
Compatibility	SikaPlast® PH 3536 is not compatible with Sikament RB superplasticizers. SikaPlast® PH 3536 is suitable for mixes containing: <ul style="list-style-type: none">▪ Microsilica (Silica Fume)▪ Fly Ash (PFA)▪ GGBS (ground granulated blast furnace slag)
Dispensing	SikaPlast® PH 3536 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal results are obtained if SikaPlast® GL 118 is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted. Avoid adding the admixture to the dry aggregates

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.

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 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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