

PRODUCT DATA SHEET

SikaPlast®-180

Superplasticizing concrete admixture with retardation



DESCRIPTION

SikaPlast®-180 is a multifunctional superplasticizer for concrete.

USES

- In cases of demands for low water to cement ratio (W/C), increased flow and prolonged workability
- For Ready mix production units
- For concreting under high temperatures
- In cases of fair-faced concrete
- For the production of reduced permeability concrete
- In cases of mass concreting

CHARACTERISTICS / ADVANTAGES

- Increases workability without increasing mixing water
- Reduces W/C ratio with the same workability
- Increases mechanical strengths
- Improves finishing surface
- Reduces water penetration
- Maintains workability even under difficult circumstances (e.g. high temperature)
- Reduces shrinkage and creep
- SikaPlast®-180 does not contain chloride and is suitable for reinforced and prestressed concrete

APPROVALS / CERTIFICATES

CE Marking and Declaration of Performance according to EN 934.02 - Set retarding / high range water reducing / super plasticizing admixture (Tables 11.1 & 11.2).

PRODUCT INFORMATION

Composition	Modified, lignosulfonate polymers
Packaging	IBC, 240 kg drums, 20 kg containers. Bulk supply on demand.
Shelf life	18 months from date of production
Storage conditions	Store properly in undamaged, unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Density	~1.05 Kg/l (at 20°C)
pH-Value	~10.0 (at +20°C)
Total chloride ion content	Free (EN 934-1)

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.

APPLICATION INFORMATION

Recommended dosage

0.2-0.8% by weight of cement
In normal conditions use 0.2% to 0.5% and for higher demands 0.5% to 0.8%.

Dispensing

SikaPlast®-180 is added to the gauging water at the plant or added on-site into the concrete mixer.

Compatibility

SikaPlast®-180 can be combined with the following Sika products:

- Sika® Plastiment® series
- Sikament® series
- Plastocrete® N/ Sika®-1+/ Sika® WT-200 P
- Sika® Ferrogard®-901 S
- Sika® Visco I-100
- Sikafume® HR-E / Sikacrete® AR
- Sika-Aer® Fine

Trials are recommended before combining products.

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.

FURTHER INFORMATION

When using SikaPlast®-180 a suitable mix design has been taken into account and local material sources should be trialled.

SikaPlast®-180 should not be added to dry cement. SikaPlast®-180 should be added with the mixing water or introduced at the end of the mixing process. Before application, suitability tests must be performed.

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

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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