

PRODUCT DATA SHEET

Sika® Plastiment®-180

WATER REDUCING/PLASTICISING ADMIXTURE

PRODUCT DESCRIPTION

Plastiment® 180 is a liquid admixture which is formulated from modified Lignosulphonates.

USES

Plastiment® 180 produces a more uniformly cohesive concrete to meet the specifications and needs of Architects, Consulting Engineers and Contractors. Plastiment® 180 is mainly used for the following applications:

- A wide range of applications
- Variable use in different concrete systems with different raw materials

CHARACTERISTICS / ADVANTAGES

Water reduction, resulting in higher density, higher strength and reduced permeability

- Reduced shrinkage during curing
- Provides many opportunities for cost improvement e.g.:
 - Cement replacement / reduction
 - More economic mix design

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Table 2 DoP 02 13 03 01 100 0 000208 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark

PRODUCT INFORMATION

Chemical Base	Modified Lignosulphonates
Packaging	1000 litre IBC and Bulk Tanker
Appearance / Colour	Brown Liquid
Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +25°C.
Storage Conditions	Protect from direct sunlight and frost.
Specific Gravity	1.20 Kg/Litre
pH-Value	5.0 +/- 1.0
Total Chloride Ion Content	<0.1%
Equivalent Sodium Oxide	< 0.6%

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed.

Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.

Fresh concrete must be cured properly and curing applied as early as possible.

APPLICATION INFORMATION

Recommended Dosage

0.3 – 0.7% by weight of cement

Compatibility

Plastiment® 180 may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.

Dispensing

Plastiment® 180 is added to the gauging water or added with it into the concrete mixer.
To take advantage of the optimum water reduction, a wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended.
To avoid excess water in the concrete, the final dosage must begin only after 2/3 of the wet mixing time.

Restrictions

When using Plastiment® 180 a suitable mix design has to be taken into account and local material sources shall be trialled.
Plastiment® 180 shall not be added to dry cement.
Excessive water addition or overdosing may cause bleeding or segregation. Support from our Technical Service Department is recommended
Frost: If frozen and / or if precipitation has occurred, Plastiment® 180 may be used after thawing slowly at room temperature followed by intensive remixing.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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.

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 the exact product data and uses.

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.

ECOLOGY, HEALTH AND SAFETY

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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