

Product Data Sheet
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Plastiment® 100

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Water Reducing and Set Retarding Concrete Admixture

Description A concrete plasticizer and retarder based on Carbohydrate and modified lignosulfonates used to produce good quality concrete.

Complies with ASTM C494 Type D

Uses Plastiment® 100 is used in structural and mass concrete where long setting times and improved workability are required, such as projects with:

- Large pours, to prevent formation of cold joints
- Long travel times from the concrete plant to the site
- Difficult placing conditions and details
- High ambient temperature

Advantages

- Only set retarding, does not delay the hardening process.
- Allow substantial cement reduction compared to plain concrete
- Increase in ultimate strength
- Good control of slump loss even at elevated ambient temperature
- Reduced shrinkage and creep
- Chloride free, does not attack reinforcement steel

Product Data

Form/Colour Liquid / Brown

Packaging 5 / 25 / 200 litres drum

Storage Dry, cool, shaded place.

Shelf Life Min. 1 year if stored properly in original unopened packaging

Technical Data

Base Blend of Lignosulfonates / Carbohydrates

Specific gravity 1.115 - 1.140

Chloride content Nil



Application	
Dosage	0.20 – 0.6 ltr per 100 kg of cement (Depend on Cement type & brand)
Typical dosage	0.35 – 0.50 ltr. per 100 kg of cement
Compatibility	Possible to combine with all Sikament, Sika Aer, Sika Pump, Sikacrete PP1, but must be added separately to the mix and not pre-mixed prior addition.
Cement types	All Portland cement including sulfate resistant cement
Dispensing	Plastiment® 100 is either added to the gauging water prior to its addition to the dry concrete mix or added separately to wetted concrete mix, further mixing should take place for at least 1 minute per m ³ .
Overdosing	When overdosed, setting time will be extended, depending on cement content and temperature. Final strength will be not impaired.
Note:	Due to extended setting time, proper curing must be ensured. Do not vibrate green concrete or tamper embedded rebars whilst setting.
Notes on application/ limits	<ul style="list-style-type: none"> ■ Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. If assistance is required, please contact the Sika Technical Service Department. ■ Accurate dispensing equipment can be supplied by Sika Ltd. Vietnam ■ Use an appropriate mixer and do not mix by hand ■ Curing treatment - use of Sika curing compounds to cure concrete is advisable
Health and Safety information	
Ecology	Do not dispose into water
Transportation class	Non-hazardous
Waste disposal	According to local law
Precautionary measures	Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact. In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention immediately.
Disclaimer	<i>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.</i>



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