

PRODUCT DATA SHEET

Sika® Plastiment® V-105 M

HIGH RANGE WATER REDUCING AND SET RETARDING

DESCRIPTION

A liquid concrete plasticizer and high range water reducing agent with a set retarding effect.

USES

Sika® Plastiment® V-105 M is used as a general purpose admixture to produce a workable concrete mixture having optimum water cement ratio to obtain an economical mix where the placing conditions of high quality concrete are more demanding such as :

- Elevated temperatures.
- Fair faced concrete.
- Pumped concrete.

- Ready mix concrete.
- Areas where large volumes must be placed at one time.
- High mechanical strengths are required.

CHARACTERISTICS / ADVANTAGES

Plastiment® V105 M provides the following properties:

- Reduce water content with a high dosage.
- Extend setting time in hot weather.
- Improve workability without increase water content.
- Increased strengths development.
- Reduced shrinkage and creep.
- Long lasting control of slump loss.
- Better surface finish.
- Chloride free – does not attack reinforcement.

PRODUCT INFORMATION

Composition	Modified Lignosulfonate
Packaging	200 L drum Bulk delivery
Appearance / Colour	Liquid / Dark Brown
Shelf life	12 months from date of production if stored properly in undamaged un-opened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost.
Density	1.19 ± 0.01 kg/ L
Total Chloride Ion Content	< 0.1 % w/w

APPLICATION INFORMATION

Recommended Dosage	0.30 – 0.80 % by weight of cement. The dosage rate can be increased up to 1.0% to overcome difficulties in quality of cement and aggregates, high temperature and difficult placing conditions. In many cases, it is advisable to carry out trial mixes to establish the exact dosage rate required.
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APPLICATION INSTRUCTIONS

DISPENSING

Sika® Plastiment® V-105 M should be dispensed directly into the mixing water prior to its addition to the aggregates.

When accidental overdosing occurs, Plastiment® V105 M does not entrain excessive amounts of air, however the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.

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.

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.

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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