

PRODUCT DATA SHEET

Sika® Plastiment®-111 R (MM)

Water Reducing and Set Retarding Admixture

DESCRIPTION

Sika® Plastiment®-111 R (MM) is a ready to use, liquid admixture for producing more uniform and predictable quality concrete. It reduces the quantity of mixing water to produce concrete of a given consistency, with greater economy, for a given strength. The use of Sika® Plastiment®-111 R (MM) meets ASTM C494 Type B (retarding) and Type D (water reducing & retarding) admixture. It will not initiate or promote corrosion of reinforcing steel in concrete and does not contain intentionally added calcium chloride or chloride-based ingredients.

USES

Sika® Plastiment®-111 R (MM) is recommended for use in all types of concrete where retardation of set and improved performance are desired eg. Plain, reinforced, precast or prestressed concrete especially when placing by pump and enhanced finishing is desired. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mix.

FEATURES

Sika® Plastiment®-111 R (MM) used at optimum dose modifies the performance of concrete to provide the following:

IN THE PLASTIC CONCRETE

- Reduced water content for a given workability
- Superior slump retention
- Controlled retardation – depending on the dose rate
- Improved workability, greater pumpability
- Reduced segregation

IN THE HARDENED CONCRETE

- Better finished appearance
- Increased strength
- Greater durability
- Improved workability, greater pumpability
- Reduced segregation

PRODUCT INFORMATION

Packaging	200L/Drum and 1000L/Tank
Appearance and colour	Brown Liquid
Shelf life	12 months from the date of production
Storage conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions
Density	1.045 - 1.085
pH-Value	5.0 - 9.0

APPLICATION INFORMATION

Recommended dosage	Sika® Plastiment®-111 R (MM) is normally used at a dosage rate of 250 – 850 ml/100kg of cement. Other dosages may also be used depending on the specific work conditions. Setting time is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic conditions. Trial mix should be carried out with actual jobsite materials to determine the optimum dosage required for a specific setting time and given strength.
Dispensing	Sika® Plastiment®-111 R (MM) can be added into the mixing water, or can be added to the wet concrete after the mixing water have been added. The addition of Sika® Plastiment®-111 R (MM) to a dry concrete mix is not recommended. A separate dispenser or feed line must be used.

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.

LIMITATIONS OF USE

- It is always advisable to carry out trial mixes to establish the exact dosage required.
- When accidental overdosing occurs, Sika® Plastiment®-111 R (MM) should not entrain excessive air. Extended setting times may occur. If carefully protected from excessive drying during the setting time, final concrete properties should not be adversely affected.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 exact product data and uses.

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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