

PRODUCT DATA SHEET

Sika® Plastiment®-45

WR - Water Reducer

DESCRIPTION

Sika® Plastiment®-45 is a water reducing concrete admixture based on modified polycarboxylates. It improves dispersion of the cementitious materials, resulting in increased workability and/or water reduction.

USES

Sika® Plastiment®-45 can be used to achieve increased workability without loss of strength or to increase strength without loss of workability. It can be used for most concrete applications, including pumped, prestressed and structural concrete. Increasing doses of Sika® Plastiment®-45 may result in longer setting times.

CHARACTERISTICS / ADVANTAGES

- Improved dispersion of cementitious materials.
- Reduction in the energy required for effective mixing.
- Higher slump can be achieved without further addition of water, or higher strength can be achieved at the same slump.
- Fresh concrete is easier to pump, place and compact.
- Lower water/cement ratios are possible, improving concrete strength and durability.

Sika® Plastiment®-45 is manufactured from selected polycarboxylates which reduce the detrimental effects caused by variations in concrete raw materials.

APPROVALS / CERTIFICATES

Sika® Plastiment®-45 meets and exceeds all requirements of Australian standard 1478.1-2000 for Water reducing Admixture (WR).

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates
Packaging	Bulk deliveries
Shelf life	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight and frost, shelf life is at least one (1) year.
Storage conditions	Store at 5°/35° C, protected from the direct sunlight
Appearance and colour	Light brown liquid
Specific gravity	1.06 g/cm ³
Concreting guidance	Concrete should be transported, placed, compacted, finished and cured in accordance with the accepted principles of good concrete practice.
Recommended dosage	Recommended dosage is 350 ml± 100 ml per 100 kg of total cementitious material. This dosage can be increased to 600 ml per 100 kg of total cementitious material to improve water reduction and extend setting time. Optimum dosage should be determined by site trials with the particular

concrete mix design and materials.

Dispensing	Sika® Plastiment®-45 is added with the initial batching water. Never add to a dry mix.
Compatibility	Sika® Plastiment®-45 can be used in conjunction with all the Sika Concrete admixtures, except Sikament® NN. All admixtures must be added separately.

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

Sika® Plastiment®-45 may slightly increase the air content of concrete when used at normal dose.

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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