

PRODUCT DATA SHEET

Sika® Plastiment® PZ 504

(formerly MasterPozzolith® 504)

High performance, retarding plasticiser for concrete

DESCRIPTION

Sika® Plastiment® PZ 504 is a high performance, plasticising retarder beneficial in maintaining workability especially in high ambient temperatures

USES

Of particular value for ready-mixed concrete where high workability retention and retardation are of prime importance

Hot weather concreting of all types

Reduction in permeability, reducing effect of ground-water salts on concrete and steel

To improve cohesion, workability and compatibility in concretes using poorly graded/shaped fine aggregates

TYPICAL APPLICATIONS

In hot weather concreting where delays to initial and final set are important and where maximum slump retention is of concern – such as site-batched, pre-cast, and ready-mixed concretes.

FEATURES

Considerably improves the cohesion of concrete, reducing segregation and bleed water

Of particular use where fine aggregates of poor grading and particle shape are evident

Reduces placing problems in hot weather, through improved workability and workability retention

Improved surface finish Improved trowellability

Reduces honeycombing/cold joint effects Improves pumpability of concrete

Reduces effects of various modes of attack on concrete and embedded steel through considerable reduction in permeability

CERTIFICATES AND TEST REPORTS

ASTM C-494: Types B and D

BS 5075: Part 1

PRODUCT INFORMATION

Composition	High molecular weight refined lignosulphonates and synthetic retarders
Packaging	1000 lt. flow bins. Bulk supply in tanker trucks is available upon request
Shelf life	Up to 12 months if stored according to manufacturer's instructions in unopened containers
Storage conditions	Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Appearance and colour	Dark brown liquid
Density	1.135-1.165

pH-Value	5-7
Total chloride ion content	Nil to BS 5075:1982

APPLICATION INFORMATION

Recommended dosage	<p>Trials should be conducted to determine the optimum addition rates of Sika® Plastiment® PZ 504, depending on mix design proposed and mix performance requirements.</p> <p>As a general guide to these trials, a dosage range of 0.2-0.56ltr/100kg of cement is recommended as a starting point.</p> <p>Depending on the desired properties, a dosage of up to 1000ml/100kg of cement can be used.</p>
Dispensing	Sika® Plastiment® PZ 504 should be dispensed through a proprietary dispenser.
Compatibility	<p>Sika® Plastiment® PZ 504 can be used with all types of Portland cement including SRC.</p> <p>Sika® Plastiment® PZ 504 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing Sika® Plastiment® PZ 504, they must be dispensed separately.</p>

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.

LIMITATIONS OF USE

EFFECTS OF OVER DOSAGE

A severe over-dosage of Sika® Plastiment® PZ 504 will result in the following:
 Retardation of initial and final set Slight increase in air-entrainment Increase in workability
 Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete. The retarding effects of very high dosages will be exaggerated with SRC.

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.

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APPLICATION INSTRUCTIONS

APPLICATION

Sika® Plastiment® PZ 504 Optimum performance is achieved when the admixture is added to the mixing water. Never add Sika® Plastiment® PZ 504 to dry cement. No extension to normal mixing time is necessary

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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