

## PRODUCT DATA SHEET

# Sika® Plastiment® PZ 417

(formerly MasterPozzolith® 417)

Plasticising and water-reducing admixture with set retarding properties

### DESCRIPTION

Sika Plastiment PZ 417 is a plasticiser which disperses and deflocculates cement particles while delaying the hydration process, thereby retarding the initial and final set. It can be used to improve workability without the addition of extra water, or to allow reductions in the free water content. Due to improved dispersion of the cement particles the process of hydration proceeds under the optimum conditions, leading to improved strength characteristics with or without reduction in free water. Compliant to standard ASTM C 494 Type B & D.

### USES

- High strength, high cement content, low W/C ratio mixes
- Hot weather concrete where control of initial and final set is important
- White cement concrete
- Slipformed concrete
- High strength mixes
- To control set of concrete particularly in high temperature conditions
- Bridge building
- Prestressed concrete work
- Mass concrete

### PRODUCT INFORMATION

<b>Chemical Base</b>	lignin
<b>Packaging</b>	205 liter Drum, 1000 liter Bulk
<b>Shelf Life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging
<b>Storage Conditions</b>	Store in cool and dry conditions at temperatures above 5°C, well ventilated place away from ignition sources, heat or flame. Protect from direct sunlight

**Appearance / Colour** Yellowish to Brown Liquid

**Specific gravity** 1.086 - 1.126

## APPLICATION INFORMATION

**Recommended Dosage** Field trials should be conducted to determine the optimum addition rates of Sika Plastiment PZ 417. As a guide to these trials, a dosage range of 0.2 to 0.8 litre per 100 kg cement is recommended as a starting point. Dosages outside this range can be used where improved workability, increased water reduction and / or further set retardation are required.

**Dispensing** Directions for use Sika Plastiment PZ 417 should be added to the concrete mix during the mixing cycle, at the same time as the water, or the aggregates. Never add Sika Plastiment PZ 417 to the dry cement. No extension to normal mixing time is necessary. Sika Plastiment PZ 417 should be dispensed through a proprietary dispenser.

**Compatibility** Sika Plastiment PZ 417 can be used with all types of Portland Cement including sulphate resisting (Type V). Sika Plastiment PZ 417 should not be premixed with other admixtures. If other admixtures are to be used in concrete containing Sika Plastiment PZ 417, they must be dispensed separately. If in doubt, consult our Technical Service Department.

## 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

A severe over dosage of Sika Plastiment PZ 417 will result in increased retardation of initial and final set and increase in workability. Providing concrete is properly cured the ultimate strength of the concrete will not be adversely effected and will generally be higher than for normal concrete. Care should be taken to allow for the affect on formwork pressures and on stripping times.

## 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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application

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## 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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