

PRODUCT DATA SHEET

Sika® Plastiment® PZ 390

Water reducing multi dosage / plasticizer to produce low slump-loss flowable concrete

DESCRIPTION

Sika® Plastiment® PZ 390 is a water reducing, plasticising admixture for the production of low slump loss, high workability concrete. Sika® Plastiment® PZ 390 is formulated for use over a wide dosage range. Sika® Plastiment® PZ 390 can match the performance characteristics of many superplasticisers at a lower dosage and cost. At the lower end of the dosage range Sika® Plastiment® PZ 390 will substantially increase and extend workability at a given water cement ratio. Alternatively, the water cement ratio can be reduced whilst maintaining a given slump. The water reduction capability, slump and extension of workability, increase with dosage. At higher dosage rates, Sika® Plastiment® PZ 390 will enable water reductions and the production of flowing concrete normally only available from superplasticisers.

USES

Sika® Plastiment® PZ 390 is formulated for use by commercial ready-mix operators, who can benefit from its multiple role characteristics by minimising admixture stock. Used to reduce the water cement ratio, Sika® Plastiment® PZ 390 will improve all the desirable performance characteristics of hardened concrete: higher compressive strength and modulus; lower permeability, shrinkage, and creep.

CHARACTERISTICS / ADVANTAGES

- In areas of congested reinforcement where high workability will ease placement and compaction.
- Hot weather concreting where extension of workability is beneficial.
- To effect reduction in the water cement ratio enabling either higher strength or cement economy.

APPROVALS / STANDARDS

EN 934-2 Tables 2 & 10
ASTM C-494 type A & D

PRODUCT INFORMATION

Packaging	Sika® Plastiment® PZ 390 is available in 1000 litre IBCs or in bulk.
Appearance / Colour	Brownish liquid
Shelf Life	12 months from the date of manufacture, when stored correctly.
Storage Conditions	Sika® Plastiment® PZ 390 must be stored in a place where the temperature does not drop below +5°C. If product has frozen, thaw by increasing at 3°C increments and agitate until completely reconstituted. Store in unopened container, 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.

Density	1.170 -1.220
Total Chloride Ion Content	“chloride-free” to EN 934-2

APPLICATION INFORMATION

Recommended Dosage	The normal range is 0.3-1.0 litre / 100 kg cement. Higher dosages may be required when certain combinations of materials and conditions are present or water reduction in excess of 15% is required. In all cases, trial mixes should be carried out to determine the optimum dosage required to achieve the desired concrete properties.
Dispensing	Sika® Plastiment® PZ 390 is introduced into the mixer with the mixing water. The admixture works more efficiently if it is added to the dampened mix after 50-70% of the water has been introduced. No extension to normal mixing time is necessary. Sika® Plastiment® PZ 390 should never be added to any dry materials.

SYSTEM INFORMATION

Compatibility	Sika® Plastiment® PZ 390 is compatible with all types of Portland cement including SRC and modified, Type II. For use with other special cement types or blends contact your Sika Technical representative for advice.
---------------	--

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.

ECOLOGY HEALTH AND SAFETY

Sika® Plastiment® PZ 390 is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information, refer to material safety data sheet.

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 fields.

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.

Sika South Africa (Pty) Ltd
 9 Hocking Place,
 Westmead, 3608
 South Africa
 Phone +27 31 792 6500
 www.sika.co.za



Product Data Sheet
 Sika® Plastiment® PZ 390
 March 2025, Version 02.01
 021303000000002132

SikaPlastimentPZ390-en-ZA-(03-2025)-2-1.pdf