

PRODUCT DATA SHEET

Sika® Plastiment® PZ 3500

HIGH PERFORMANCE, RETARDING PLASTICISER FOR CONCRETE

DESCRIPTION

Sika® Plastiment® PZ 3500 is a high performance, plasticising retarder beneficial in maintaining workability especially in high ambient temperatures.

USES

- Particularly suitable for ready-mixed concrete where high workability retention and controlled setting (retardation) are essential.
- Ideal for all types of hot weather concreting.
- Provides reduced permeability, minimizing the impact of groundwater salts on both concrete and reinforcement steel.
- Enhances cohesion, workability, and compatibility in concrete mixes containing poorly graded or irregularly shaped fine aggregates.
- Suitable for hot weather concreting where controlled delay of initial and final setting is required and where maximum slump retention is critical such as site-batched, precast, and ready-mixed concrete operations.

FEATURES

- Significantly improves cohesion of concrete, minimizing segregation and bleed water.
- Particularly beneficial when using fine aggregates with poor grading or irregular particle shape.
- Enhances workability and workability retention, reducing placing difficulties during hot weather concreting.
- Provides an improved surface finish and better trowelability.
- Minimize honeycombing and cold joint formation.
- Improves pumpability of concrete.
- Reduces permeability, thereby limiting the effects of aggressive agents and protecting both concrete and embedded reinforcement steel.

CERTIFICATES AND TEST REPORTS

ASTM C-494: Types B and D

BS 5075: Part 1

All products are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

PRODUCT INFORMATION

Packaging	available in 1000ltr containers.
Appearance and colour	Dark brown liquid
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. For specific storage advice, consult Sika's Technical Services Department.	
Flash point	None	
pH-Value	5-7	
Total chloride ion content	Nil	BS 5075:1982
Freezing point	0°C ; can be reconstituted if stirred after thawing	
Specific gravity	1.165 - 1.185	

TECHNICAL INFORMATION

Specific advice	Effects of Over Dosage A severe over-dosage of Sika® Plastiment® PZ 3500 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.
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APPLICATION INFORMATION

Recommended dosage	Trials should be conducted to determine the optimum addition rates of Sika® Plastiment® PZ 3500, depending on mix design proposed and mix performance requirements. As a general guide to these trials, a dosage range of 0.2-0.56 ltr/100kg of cement is recommended as a starting point. Depending on the desired properties, a dosage of up to 1000ml/100kg of cement can be used.
Compatibility	Sika® Plastiment® PZ 3500 can be used with all types of Portland cement including SRC. For use with other special cements, contact Sika 's Technical Services Department. Sika® Plastiment® PZ 3500 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing Sika® Plastiment® PZ 3500, they must be dispensed separately. special cements, contact Sika's Technical Services Department. Sika® Plastiment® PZ 3500 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing Sika® Plastiment® PZ 3500, they must be dispensed separately.
Equipment	Sika® Plastiment® PZ 3500 should be dispensed through a proprietary dispenser, such as is available from Sika Egypt For construction chemicals .
Setting time	Sika® Plastiment® PZ 3500 acts efficiently to give controlled retardation of initial set. Setting times of concrete mixes are related to cement type and ambient temperatures.

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

Optimum performance is achieved when the admixture is added to the mixing water. Never add Sika® Plastiment® PZ 3500 to dry cement. No extension to normal mixing time is necessary.

SPECIFICATION INFORMATION

Sika® Plastiment® PZ 3500, a retarding and plasticising concrete admixture manufactured by Sika Egypt For construction chemicals or similar approved, to the following specification:

Sika® Plastiment® PZ 3500 is to be used in all concrete at a dosage range of 200ml to 560ml/100kg of Cement in accordance with the manufacturer's instructions.

Specific gravity 1.150 ± 0.005

Complying with specification type:

ASTM C-494 Types B and D and BS 5075 Part 1

Composition: High molecular weight

ECOLOGY, HEALTH AND SAFETY

Sika® Plastiment® PZ 3500 is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information, refer to the material safety data sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your Sika Egypt for construction chemicals representative.

Sika Egypt for construction chemicals reserves the right to have the true cause of any difficulty determined by accepted test methods.

APPLICATION INSTRUCTIONS

APPLICATION

Sika® Plastiment® PZ 3500 acts efficiently on cement particles by combining the effects of a powerful plasticising/deflocculating agent and retarder.

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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Product Data Sheet

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