

PRODUCT DATA SHEET

Sika® Plastiment® PZ 389 SA

High Performance Retarding Plasticiser for Concrete

DESCRIPTION

Sika® Plastiment® PZ 389 SA is a high-performance plasticising retarder, beneficial in maintaining workability especially in high ambient temperatures. Suitable for use in hot and tropical climatic conditions.

USES

Sika® Plastiment® PZ 389 SA is used for producing high quality concrete in applications such as:

- Ready mixed concrete
- Fair faced concrete
- High temperature concreting
- Difficult placing conditions
- Concreting in long transportation distances

FEATURES

Sika® Plastiment® PZ 389 SA provides the following properties:

- Long slump retention at high concrete temperature
- Increased setting time in hot weather
- Reduced water content concrete without loss of workability

- Reduced shrinkage and creep
- Increased strength
- Better surface finish
- Economical
- Reduces segregation and bleeding
- Improves cohesion, workability and compactability in concrete using poorly graded/shaped fine aggregates.
- Reduces placing problems in hot weather by improved workability and workability retention in conjunction with extended setting times
- Reduces honeycombing / cold joint effects.
- Reducing segregation and bleed water.
- Improves pumpability of concrete.
- Reduces effects of various modes of attack on concrete and embedded steel by considerable reduction in permeability

CERTIFICATES AND TEST REPORTS

Sika® Plastiment® PZ 389 SA follows the requirements of ASTM C494; Type B & D and EN 934-2

PRODUCT INFORMATION

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| Composition | Modified organic compounds |
| Packaging | 200 L drum, 1000 L flowbin ,Bulk supply in tanker trucks. |
| Shelf life | 12 months |
| Storage conditions | Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost. |
| Density | ~1.04 kg/l (+25°C) |
| pH-Value | 3 –7 |
| Total chloride ion content | Nil (EN 934-2) |

TECHNICAL INFORMATION

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| Concreting guidance | The standard rules of good concreting practice for production and placing must be observed when using Sika® Plastiment® PZ 389 SA in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian. |
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APPLICATION INFORMATION

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| Recommended dosage | 0.2 - 0.6 % by weight of total binder. Other dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required. |
| Compatibility | <p>Sika® Plastiment® PZ 389 SA may be combined with all types of Portland cement (OPC and SRC), concretes containing pozzolanic materials such as GGBS, PFA, micro-silica and the following Sika products:</p> <ul style="list-style-type: none">▪ Sikaplast®▪ Sikaviscocrete® ranges▪ SikaPump®▪ Sika® FerroGard®-901▪ SikaFume®▪ SikaFiber®▪ Sika Aer®▪ Sika®Stabilizer▪ Sika®-1WT▪ Sika® WT-10▪ Sikacontrol® <p>We recommend for trial mixes to be performed to establish the required performance when combining Sika® Plastiment® PZ 389 SA with the above products or other admixtures. Please consult our Sika Technical Department for further assistance.</p> |
| Dispensing | Sika® Plastiment® PZ 389 SA is added to the gauging water or simultaneously poured it with water into the concrete mixer at the batching plant. Do not add Sika® Plastiment® PZ 389 SA directly to the dry mix. The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two thirds of the wet mixing time to avoid surplus water in the concrete. |

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Sika® Plastiment® PZ 389 SA should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing Sika® Plastiment® PZ 389 SA, they must be dispensed separately.
- When using Sika® Plastiment® PZ 389 SA a suitable concrete mix must be designed for the local material sources and trial mixes performed to verify suitability.

- With high workability mixes take special care that all formwork is properly installed and secured.
- When accidental overdosing occurs the set retarding effect and workability increases. Additional air may also be entrained. During this period the concrete must be kept moist in order to prevent premature drying out. If properly cured, the ultimate strength of the concrete will not be adversely affected.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 Gulf B.S.C. (c)

Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC

Sika MB Construction Chemicals LLC
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited

Sika Construction Chemicals for
Manufacturing LLC
Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 9200 22167
Email: info@sa.sika.com
Web: gcc.sika.com

Sika LLC - Oman

Sika MB LLC
Tel: +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
Sika MB LLC
Sika International Chemicals LLC
Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals
for Manufacturing LLC
ISO 9001 – LMS
Sika MB LLC

All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards ISO 9001, ISO
14001 and ISO 45001.



Product Data Sheet

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