

## PRODUCT DATA SHEET

# Sika® Plastiment® PZ 327

(formerly MPozzolith 327)

### HIGH PERFORMANCE RETARDING PLASTICISER FOR CONCRETE

#### DESCRIPTION

Sika® Plastiment® PZ 327 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

- Ready mix concrete where workability retention coupled with retardation of initial set are beneficial
- Reduction in permeability helps reducing effect of groundwater salts on concrete and steel
- To improve cohesion, workability and compactability in concretes using poorly graded/shaped fine aggregates
- Hot weather concreting where controlled delay to initial set is of prime importance
- Large slabs or bridge decks, etc. where the extension of vibration is needed to avoid cold joints
- As a synergy admixture in combination with Sika superplasticizer
- Ideal for site batches, precast and ready mixed concrete

#### FEATURES

- Considerably improves the cohesion of concrete, reducing segregation and bleeding
- Suitable for concrete where fine aggregates of poorly graded particle are part of the mix
- Reduces concrete placing challenges in hot weather by improved workability and workability retention in conjunction with extended setting times
- Improved surface finish
- Improved trowellability
- Reduces honeycombs and cold joint
- Improves pumpability of concrete
- Improves durability due to the reduction in permeability in hardened concrete

#### CERTIFICATES AND TEST REPORTS

Sika® Plastiment® PZ 327 follows the requirements of ASTM C494; Types A,B and D and BS EN 934-2

#### PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| Composition                | Modified organic compounds   |
| Packaging                  | 210 L drums, 1000 L flowbin or bulk supply in tanker   |
| Appearance and colour      | Dark brown/black liquid  |
| Shelf life                 | 12 months from date of production if stored properly   |
| Storage conditions         | Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +45°C. Mix well before use. |
| Density                    | ~1.12 kg/l (+25°C)   |
| Total chloride ion content | Nil (BS EN 934-2)  |

## TECHNICAL INFORMATION

### Concreting guidance

The standard rules of good concreting practice for production and placing must be observed when using Sika® Plastiment® PZ 327 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.

## APPLICATION INFORMATION

### Recommended dosage

As a general guide, a dosage range of 200 ml to 850 ml per 100 kg of total binder is recommended. Depending on the desired properties, a dosage of up to 1000 ml per 100 kg of binder shall be used. Trials should be carried out to determine the optimum dosage of Sika® Plastiment® PZ 327.

### Compatibility

Sika® Plastiment® PZ 327 is suitable for mixes containing all types of cement and supplementary cementitious materials such as: Microsilica (Silica Fume), Fly Ash (PFA), GGBS (Ground Granulated Blast Furnace Slag) and the following Sika products:

- Sikament®
- SikaPump®
- Sika®FerroGard®,
- SikaFume®
- SikaFiber®
- Sika® Aer
- Sika® Stabilizer
- SikaControl®

We recommend for trial mixes to be performed to establish the required performance when combining Sika® Plastiment® PZ 327 with the above products or other admixtures. Please consult our Sika Technical Department for further assistance.

### Dispensing

Sika® Plastiment® PZ 327 should be added to the concrete mix during the mixing cycle at the same time as the water or the aggregate. Never add Sika® Plastiment® PZ 327 to the dry cement. No extension to normal mixing times is necessary.

## 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.

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.

## IMPORTANT CONSIDERATIONS

- Sika® Plastiment® PZ 327 should not be premixed with other admixtures. If other admixtures are to be used in concrete containing Sika® Plastiment® PZ 327, they must be dispensed separately.
- **Sika® Plastiment® PZ 327 is not compatible with admixtures containing polycarboxylic ether polymer such as those from the Sika® ViscoCrete® and Sika-Plast® product ranges.**
- When using Sika® Plastiment® PZ 327 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

## 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.

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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.



SikaPlastimentPZ327-en-AE-(01-2025)-1-1.pdf

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January 2025, Version 01.01

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