

PRODUCT DATA SHEET

Sika® Plastiment® PZ 55 R

Water reducing and retarding concrete admixture

DESCRIPTION

Sika® Plastiment® PZ 55 R is a water based, liquid, set-retarding admixture that slows the chemical action of cement hydration, delaying the initial set in direct proportion to the dosage used. After the planned delay in initial set, hardening develops at an accelerated rate. Suitable for use in hot and tropical climatic conditions.

USES

Sika® Plastiment® PZ 55 R is used as a water reducing and set retarding admixture in structural and mass concrete where a controlled extension of setting time is required, such as:

- Large volume pours
- Avoidance of cold joints
- Construction joints without formwork
- Long hauls
- Difficult placing conditions
- Retarded mortars
- Slip formed concrete
- At elevated ambient temperatures

FEATURES

Sika® Plastiment® PZ 55 R provides the following beneficial properties:

- Controlled setting times
- Increased setting time in hot weather
- Accelerated hardening after setting
- Improved workability without increased water content
- Increased strengths
- Reduced shrinkage and creep
- Long lasting control of slump loss
- Superior surface finish
- Does not contain chlorides or other steel corrosion promoting ingredients

CERTIFICATES AND TEST REPORTS

Sika® Plastiment® PZ 55 R follows the requirements of ASTM C494; Types B and D and EN 934-2

PRODUCT INFORMATION

Composition	Aqueous solution of modified carbohydrates	
Packaging	210 L drums, 1000 L flowbin or bulk supply in tanker	
Appearance and colour	Clear to pale yellow 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 +50°C. Mix well before using.	
Density	~1.16 kg/l (+25°C)	
Total chloride ion content	Nil	(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 55 R 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

0.1 - 0.25 % by weight of binder
Dosages by weight of binder outside this range 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

Sika® Plastiment® PZ 55 R 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®
- SikaPlast®
- Sika® ViscoCrete®
- SikaPump®
- Sika® FerroGard®
- SikaFume®
- SikaFiber®
- Sika® Aer
- Sika® Stabilizer
- SikaControl®

We recommend to perform trial mixes to establish the required performance when combining Sika® Plastiment® PZ 55 R with the above products or other admixtures. Please consult our Sika Technical Department.

Dispensing

Sika® Plastiment® PZ 55 R is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add Sika® Plastiment® PZ 55 R 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

Before pouring suitability tests on the fresh concrete must be carried out.

Due to the extended workability take special care that formwork is properly installed and secured.

If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.

When using Sika® Plastiment® PZ 55 R a suitable concrete mix must be designed for the local material sources and trial mixes performed to verify suitability. Significant overdosing will result in increased workability and delayed setting time. During this period of extended setting time the concrete must be kept moist in order to prevent premature drying out. Under dosing will result in reduced workability and shorter setting times.

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:
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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.



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April 2025, Version 03.01

02130300000002162

SikaPlastimentPZ55R-en-AE-(04-2025)-3-1.pdf