BUILDING TRUST

PRODUCT DATA SHEET

Sika® Plastiment® PZ 333

High performance retarding plasticiser for concrete

DESCRIPTION

Sika® Plastiment® PZ 333 is a high performance plasticizing retarder,beneficial in maintaining workability especially in high ambient temperatures.

USES

- Ready mixed concrete where high workability retention and retardation are highly required.
- To improve cohesion, workability and compactability in concretes using poorly graded / shaped fine aggregates.
- Hot weather concreting of all types.

FEATURES

- Reduces placing problems in hot weather by improved workability and workability retention in conjunction with extended setting times.
- Improves surface finish.
- Improves trowell ability.
- Reduces honeycombing / cold joint effects.
- Considerably improves the cohesion of concrete, reducing segregation and bleed water.
- Improves pumpability of concrete.

CERTIFICATES AND TEST REPORTS

Sika® Plastiment® PZ 333 follows the requirements of ASTM C494; Types B and D and BS EN 934-2

PRODUCT INFORMATION

Composition	Modified organic compounds	
Packaging	1000 L flowbin or bulk supply in tanker	
Appearance and colour	Dark brown 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	~1.08 ± .02 kg/l (+25°C)	
Total chloride ion content	Nil	(BS EN934-2)

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using Sika® Plastiment® PZ 333 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	Trials should be conducted to determine the optimum addition rates of Sika® Plastiment® PZ 333, depending on mix design proposed and mix performance requirements. As a general guide, a dosage range of 200 ml to 600 ml per 100 kg of total binder is recommended as a starting point. Depending on the desired properties, a dosage of up to 800 ml per 100 kg of total binder shall be used.
Compatibility	Sika® Plastiment® PZ 333 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: ▪ Sikaviscocrete® ranges ▪ Sikaplast® ▪ SikaPump® ▪ Sika® FerroGard®-901 ▪ SikaFume® ▪ SikaFiber® ▪ Sika Aer® ▪ Sika®Stabilizer ▪ Sika®-1WT ▪ Sika® WT-10 ▪ Sikacontrol® We recommend for trial mixes to be performed to establish the required performance when combining Sika® Plastiment® PZ 333 with the above products or other admixtures. Please consult our Sika Technical Department for further assistance.
Dispensing	Sika® Plastiment® PZ 333 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 333 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 333 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing Sika® Plastiment® PZ 333 , they must be dispensed separately.
- When using Sika® Plastiment® PZ 333 a suitable concrete mix must be designed using the locally available material and trial mixes shall be 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.

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