BUILDING TRUST

PRODUCT DATA SHEET

Sika® Plastiment® PZ 383 NT

LOW DOSAGE RETARDING AND PLASTICIZING ADMIXTURE FOR CONCRETE

DESCRIPTION

Sika® Plastiment® PZ 383 NT is a liquid admixture which acts on the cement particles in the mix, combining the effects of a powerful plasticizer and deflocculating agent with controlled retardation. Suitable for use in hot and tropical climatic conditions.

USES

- Hot weather concreting where controlled delay to initial set is of prime importance
- Ready mix concrete where workability retention coupled with retardation of initial set are beneficial
- To improve cohesion, workability and compaction in concretes when using poorly graded / shaped fine aggregates
- Large slabs or bridge decks, etc. where extended vibration is needed to avoid cold joints
- As a synergy admixture in combination with a a Non-PCE basedsuperplasticizer

FEATURES

- Considerably extends vibration limit of concrete mixes thus reducing incidence of honeycombing and cold joints
- Reduces placing challenges in hot weather concreting by improving workability and workability retention
- Improves trowellability and surface finish
- Improves pumpability of concrete
- Considerably reduces permeability
- Cost effective

PRODUCT INFORMATION

Composition	Modified organic compounds	
Packaging	210 L drums, 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	~1.07 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 383 NT 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	In all cases, we recommend to conduct trial mixes to determine the correct levels of admixture required to achieve the desired concrete properties. The following figures should be utilized as a starting point for these trials. For site batched concrete where extended vibration time and improved finishing properties are of prime importance, a dosage of between 200 ml and 300 ml per 100 kg of binder shall be used as a starting point for the trials. For ready mixed concrete, extended concrete workability is of prime importance, a dosage of between 300 ml to 600 ml per 100 kg of binder shall be used as a starting point. Dependent on the desired properties, a dosage of up to 800 ml per 100 kg of binder may be utilized. Higher dosages may be required when certain combinations of materials and conditions are present.
Compatibility	Sika® Plastiment® PZ 383 NT 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 to perform trial mixes to establish the required performance when combining Sika® Plastiment® PZ 383 NT with the above products or other admixtures. Please consult our Sika Technical Department for further assistance.
Dispensing	Sika® Plastiment® PZ 383 NT 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 383 NT 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 383 NT should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing Sika® Plastiment® PZ 383 NT, they must be dispensed separately.
Sika® Plastiment® PZ 383 NT 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 383 NT 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.

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