

PRODUCT DATA SHEET

Sika® Plastiment® PZ 410

SET RETARDING AND PLASTICIZING ADMIXTURE

DESCRIPTION

Sika® Plastiment® PZ 410 is a plasticizer which disperses and deflocculates cement particles while delaying the hydration process, thereby retarding the initial and final set.

It can be used to improve workability without the addition of extra water, or to allow reductions in the free water content. Due to improved dispersion of the cement particles the process of hydration proceeds under the optimum conditions, leading to improved strength characteristics with or without reduction in free water. Compliant to standard ASTM C 494/494M Type B & D.

USES

- High strength, high cement content, low W/C ratio mixes.
- Hot weather concrete where control of initial and final set is important.

- White cement concrete.
- Slip-formed concrete, high strength mixes, to control set of concrete particularly in high temperature conditions.
- Mass concrete.

FEATURES

- Increases compressive, tensile and flexural strength of concrete.
- Increases density of concrete reducing permeability and thus increasing durability.
- Highly effective in high cement content low water cement ratio mixes where its use enables concrete to be made more workable without loss in strength, density and durability.
- Enables controlled extension of initial set.
- The retarding action allows continuous concrete pours to be made, thus reducing the number of construction joints needed.

PRODUCT INFORMATION

Composition	Aqueous solution of sodium gluconate
Packaging	205 L drums (non-returnable) 1 000 L bulk delivery
Shelf life	12 months from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Appearance	Liquid

APPLICATION INFORMATION

Recommended dosage	0.10 – 0.70 L per 100 Kg of cementitious. Other dosages may also be used depending on the specific working conditions. Higher dosage than the above can be used for concrete which requires long hours of slump retention. The dosage rate can be increased to overcome difficulties in quality of cement and aggregates, high temperature, difficult placing conditions, and other special concrete requirement. Concrete trial mix shall be carried out to confirm the effective dosage and its effect to concrete properties.
Compatibility	Sika® Plastiment® PZ 410 may be combined with the following products: ▪ Sika® Viscocrete® ▪ Sika Viscoflow® ▪ SikaFume® ▪ SikaFiber® Sika® Plastiment® PZ 410 is compatible with all types of Portland cement including S.R.C.

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.

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.

APPLICATION INSTRUCTIONS

APPLICATION

Sika® Plastiment® PZ 410 should be dispensed directly into the mixing water prior to its addition to the aggregates. When accidental overdosing occurs, Sika® Plastiment® PZ 410 not entrain excessive amounts of air, however the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.

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.

PT. Sika Indonesia Head Office and Manufacturing

Jl. Raya Cibinong-Bekasi Km.20
Limusunggal-Cileungsi
Bogor 16820-Indonesia
Tel. +62 21 8230025, Fax +62 21
8230026



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