

## PRODUCT DATA SHEET

# Sika® Plastiment® PZ 405

(formerly MasterPozzolith® 405)

### SET RETARDING AND WATER REDUCING CONCRETE ADMIXTURE

#### DESCRIPTION

Sika® Plastiment® PZ 405 is a ready-to-use, liquid admixture for producing high quality concrete with consistent performance. It reduces the quantity of mixing water required to produce concrete of a given workability with greater economy for a given strength. The retarding nature of the admixture also aids placing and finishing of concrete.

Sika® Plastiment® PZ 405 meets ASTM C494/C494M – Type B (Retarding) and Type D (water-reducing and retarding) admixtures. It does not contain chloride-based ingredients and will not initiate or promote corrosion of reinforcing steel in concrete.

#### USES

Sika® Plastiment® PZ 405 admixture is recommended for use in all types of concrete where moderate to extended retardation of set and improved performance are desired. The admixture improves workability of pumped concrete, shotcrete (wet mix) and conventionally placed concrete.

Sika® Plastiment® PZ 405 can be used with high content of manufactured sand and with air entraining admixtures approved under ASTM. When used in conjunction with another admixture, each admixture must be dispensed separately into the mix. By itself, Sika® Plastiment® PZ 405 admixture does not entrain air.

#### FEATURES

Sika® Plastiment® PZ 405 used at optimum dosage enhances the performance of concrete providing the following special qualities:

- Improved workability.
- Reduced segregation.
- Superior finishing characteristic.
- Controlled retardation depending on the rate of addition.
- Provides flexibility in scheduling of placing and finishing.
- Offset effects of too early hardening during extended delays between mixing and placing.
- Helps eliminate cold joints.
- Lower peak temperature and/or rate of temperature rise in mass concrete – reduces thermal cracking.

#### PRODUCT INFORMATION

Composition	Lignosulfonates
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

# TECHNICAL INFORMATION

## Concreting guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed.  
Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components.  
Fresh concrete must be cured properly and as early as possible.

# APPLICATION INFORMATION

## Recommended dosage

0.2 – 0.4 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 405 may be combined with the following products:

- Sika® Viscocrete®
- Sika Viscoflow®
- SikaFume®
- SikaFiber®

Sika® Plastiment® PZ 405 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 405 should be dispensed directly into the mixing water prior to its addition to the aggregates. When accidental overdosing occurs, Sika® Plastiment® PZ 405 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.

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## 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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