

PRODUCT DATA SHEET

Sika® Plastiment® PZ 225

(formerly MasterPozzolith® 225)

Water reducing plasticising admixture for uniform, predictable quality concrete

DESCRIPTION

Sika® Plastiment® PZ 225 is a water reducing, plasticising admixture which deflocculates and disperses the cement particles within a concrete mix. It can be used to improve workability, without the addition of extra water, or to allow reductions in the free water contents of the concrete mix. Sika® Plastiment® PZ 225 admixture has Normal setting characteristics and helps in producing more uniform and predictable quality concrete.

USES

Sika® Plastiment® PZ 225 is used for:

- To enhance workability of concrete
- Improved cohesion, can reduce binder content
- In pre-cast concrete manufacture
- For concrete blocks and brick manufacturing
- In prestressed concrete
- To effect reductions in the water cement ratio enabling either higher strength or cement economy.
- Light weight concrete
- Pumped concrete

CHARACTERISTICS / ADVANTAGES

- Reduced segregation
- Significantly improves the workability therefore easy placing and finishing
- Allows water reduction while maintaining workability, there by increased strength, durability and impermeability
- Enables economies in mix designs to be achieved thereby saving cement.

APPROVALS / STANDARDS

Conforms to IS 9103 / ASTM C494 Type A

PRODUCT INFORMATION

Packaging	Sika® Plastiment® PZ 225 is supplied in 1L, 5L, 20kg, 245kg drums or in bulk on request.
Shelf life	12 months from date of production
Storage conditions	Frost: If frozen or if precipitation has occurred, the Product may be used after thawing slowly at room temperature and intensive mixing. The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost. Always refer to the packaging.
Appearance / Colour	Dark brown liquid
Density	1.20 ± 0.02 at 25°C

TECHNICAL INFORMATION

Concreting Guidance

- Follow the standard rules of good concreting practice for both production and placement.
 - Carry out laboratory trials before concreting on site, especially when using a new mix design or producing new concrete components.
 - Carry out trials to confirm the flowability and workability of the concrete.
 - Cure fresh concrete properly and apply curing as early as possible, particularly in hot, windy and dry conditions, as well as at low temperatures.
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SYSTEM INFORMATION

Compatibility

Sika® Plastiment® PZ 225 is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set-control admixtures, corrosion inhibitors, and shrinkage reducers.

Sika® Plastiment® PZ 225 is also compatible with slag and pozzolans such as fly ash and silica fume.

APPLICATION INFORMATION

Recommended Dosage

As a guide, a dosage range of 280ml to 560ml per 100kg of cementitious material is recommended.

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilized in special cases according to specific job conditions.

Note: Preliminary laboratory trials are always recommended to determine the optimum consumption and injection parameters.

Contact Sika Technical Services for additional information.

Dispensing

Sika® Plastiment® PZ 225 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of Sika® Plastiment® PZ 225 to dry aggregate or cement is not recommended.

Automatic dispensers are available.

When using Sika® Plastiment® PZ 225 to impart higher workability to concrete at site using ready mix trucks, it can be added to the concrete via the feed hopper at the rear of the truck. Mix before discharge for 5 minutes at 10 rpm to produce a fully homogenous mix.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing 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.

Sika India Pvt. Ltd.

620, Diamond Harbour Road
Commercial Complex II
Kolkata - 700 034
West Bengal, India

Contact:

Phone: +91 33 2447 2448
Fax: +91 33 2397 8688
info.india@in.sika.com
www.sika.in



Product Data Sheet

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