

PRODUCT DATA SHEET

SikaPlast® PH 9003

(formerly MasterPolyheed® 9003)

Water-reducing, high range, and retarding admixture based on modified poly-carboxylic ether

DESCRIPTION

SikaPlast® PH 9003 is an admixture of a new generation based on modified poly-carboxylic ether. The product has been primarily developed for applications in Ready-mix & Site-batched concrete where the highest performance is required.

USES

- Ready mixed & Site mix Concrete
- Long-distance transporting
- Pumped concrete
- High workability without segregation or bleeding
- High performance concrete for durability
- Mixes requiring >20% water reduction
- Concrete containing pozzolans such as microsilica, GGBFS, PFA including high volume fly ash concrete

PRODUCT INFORMATION

Packaging	245kg drum
Shelf life	12 months from date of production
Storage conditions	SikaPlast® PH 9003 must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.
Appearance / Colour	Light to dark reddish brown liquid
Density	1.08 ± 0.02 at 25°C
pH-value	≥ 6

APPLICATION INFORMATION

Recommended Dosage Optimum dosage of SikaPlast® PH 9003 should be determined with trial mixes. As a guide, a dosage range of 500ml to 1500ml per 100kg of cementitious material is normally recommended. Because of variations in

CHARACTERISTICS / ADVANTAGES

- Good dispersion even in mixes with high cementitious fines
- Retains workability for long periods
- Lower pumping pressure
- Resistance to segregation even at high workability
- Reduced water content for a given workability
- Higher ultimate strengths
- Increased ease in finishing concrete

APPROVALS / STANDARDS

IS 9103, ASTM C494 Type B,D,G

concrete materials, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local Sika representative.

Dispensing

SikaPlast® PH 9003 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 SikaPlast® PH 9003 to dry aggregate or cement is not recommended. Thorough mixing is essential and a minimum mixing cycle, after the addition of the SikaPlast® PH 9003, of 60 seconds for forced action mixers is recommended.

Compatibility

SikaPlast® PH 9003 is compatible with most of the Sika products. Use Sika Stabilizer as viscosity modifying agent in self compacting concrete. SikaPlast® PH 9003 is not compatible with Melamine or Naphthalene based admixtures and should not be used in conjunction in the same mix. SikaPlast® PH 9003 is compatible with lingosulphonates and carboxylic acid-based plasticizer and retarders and also with most type of air entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers. SikaPlast® PH 9003 is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

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.

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