BUILDING TRUST

PRODUCT DATA SHEET

# SikaPlast® PH 8305

(formerly MasterPolyheed® 8305)

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

## DESCRIPTION

SikaPlast® PH 8305 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

## 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

ASTM C494 Types B,D & G, IS 9103

## PRODUCT INFORMATION

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| **Chemical base** | Polycarboxylic ether |
| **Packaging** | 245kg |
| **Shelf life** | 12 months from date of production if stored properly in undamaged unopened, original sealed packaging. |
| **Storage conditions** | SikaPlast® PH 8305 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.<br>Shelf life is 12 months when stored as above.<br>Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice, consult your local Sika representative. |
| **Appearance / Colour** | Reddish brown liquid |
| **Density** | 1.10 ± 0.02 at 25°C |
| **pH-value** | ≥ 6 |

## APPLICATION INFORMATION

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| **Recommended Dosage** | Optimum dosage of SikaPlast® PH 8305 should be determined with trial mixes. As a guide, a dosage range of 500ml to 1800ml per 100kg of cementitious material is normally recommended. Because of variations in 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.<br>For addition information on SikaPlast® PH 8305 admixture or on its use in developing concrete mixes with special performance characteristics, contact your local Sika representative. |
| **Dispensing** | SikaPlast® PH 8305 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 8305 to dry aggregate or cement is not recommended.<br>Thorough mixing is essential and a minimum mixing cycle, after the addition of the SikaPlast® PH 8305,of 60 seconds for forced action mixers is recommended. |
| **Compatibility** | SikaPlast® PH 8305 may be combined with many other Sika® Products. Compatible with all types of cements and cementitious materials. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations. |

## 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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