

PRODUCT DATA SHEET

Sikament® PH 8171

(formerly MasterPolyheed® 8171)

Superplasticiser based on synthetic carboxylic ether

DESCRIPTION

Sikament® PH 8171 is an admixture based on synthetic carboxylic ether. The product has been primarily developed for applications in ready mix and site-batched concrete. Sikament® PH 8171 is specially designed to allow considerable reduction of mixing water while maintaining control on extend of set retardation. Sikament® PH 8171 is free of chloride and has low alkali content. It is compatible with all types of cements.

USES

- Ready mixed concrete
- Long-distance transporting
- Pavement Quality Concrete
- High workability without segregation or bleeding
- High performance concrete for durability
- Congested/complex reinforced sections
- Mixes requiring >20% water reductions

PRODUCT INFORMATION

Packaging	245kg drum
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Sikament® PH 8171 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. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature. 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 Solutions representative.
Appearance / Colour	Reddish brown liquid
Density	1.08 ± 0.02 at 25°C

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / STANDARDS

IS 9103, ASTM C494 Type F & G

APPLICATION INFORMATION

Recommended Dosage

Optimum dosage of Sikament® PH 8171 should be determined with trial mixes. As a guide, a dosage range of 300 ml to 1500 ml 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.

Dispensing

Sikament® PH 8171 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 Sikament® PH 8171 to dry aggregate or cement is not recommended. Thorough mixing is essential and a minimum mixing cycle, after the addition of the Sikament® PH 8171, of 60 seconds for forced action mixers is recommended.

Compatibility

Sikament® PH 8171 is compatible with most of the Sika products. Sikament® PH 8171 is not compatible with Melamine or Naphthalene based admixtures and should not be used in conjunction in the same mix. Sikament® PH 8171 is compatible with ligno- sulphonates and carboxylic acid based plasticiser and retarders and also with most type of air- entrainers, accelerators, retarders, extended set- control admixtures, corrosion inhibitors, and shrinkage reducers. Sikament® PH 8171 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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