

## PRODUCT DATA SHEET

# SikaPlast® PH 8320

(formerly MasterPolyheed® 8320)

## Retarding Superplasticizer for Ready-Mix Concrete

### DESCRIPTION

SikaPlast® PH 8320 is an economical admixture based on modified poly-carboxylate ether. The product has been primarily developed for applications in ready mix and site-batched concrete. SikaPlast® PH 8320 is specially designed to allow considerable reduction of mixing water while maintaining control on extend of set retardation.

SikaPlast® PH 8320 is free of chloride & low alkali. It is compatible with all types of cements.

### USES

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

### FEATURES

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

### CERTIFICATES AND TEST REPORTS

Complies with ASTM C-494 Type B, D & G, EN 934-2: T3.1/3.2, IS 9103 & IS 2645

### PRODUCT INFORMATION

<b>Composition</b>	Modified Polycarboxylate Ether (PCE)
<b>Packaging</b>	SikaPlast® PH 8320 is supplied in 225 Kg, 1000 Kg or bulk on request.
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
<b>Appearance and colour</b>	Light Brown liquid
<b>Density</b>	~1.08 at 25° C
<b>pH-Value</b>	≥6
<b>Total chloride ion content</b>	<0.2%

# APPLICATION INFORMATION

## Recommended dosage

Optimum dosage of SikaPlast® PH 8320 should be determined with trial mixes. As a guide, a dosage range of 400 ml to 1200ml 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 our local Technical Service Department.

### Effects of over dosage

A severe over-dosage of SikaPlast® PH 8320 can result in the following:

- Reduced permeability
- Long extension of initial and final set
- Increase in air entrainment
- Bleed/segregation of mix, quick loss of workability
- Increased plastic shrinkage

A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on form work, and stripping times should be monitored.

In the event of over dosage, consult your local Technical Service Department immediately.

## Compatibility

SikaPlast® PH 8320 may be combined with many other Sika® Products.

Compatible with all types of cement 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.

## IMPORTANT CONSIDERATIONS

When using SikaPlast® PH 8320 a suitable mix design has to be taken into account and local material sources shall be trialed.

SikaPlast® PH 8320 shall not be added to dry cement.

Excessive water addition or overdosing may cause bleeding or segregation.

Frost:

If frozen and / or if precipitation has occurred, SikaPlast® PH 8320 may be used after thawing slowly at room temperature followed by intensive remixing.

## 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### DISPENSING

SikaPlast® PH 8320 is a ready-to-use liquid which is dispensed in to the concrete together with the mixing

water. The plasticizing 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 8320 to dry aggregate or cement is not recommended.

Thorough mixing is essential and a minimum mixing cycle, after the addition of the SikaPlast® PH 8320, of 60 seconds for forced action mixers is recommended.

### APPLICATION METHOD / TOOLS

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.

Fresh concrete must be cured properly and curing applied as early as possible.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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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