

PRODUCT DATA SHEET

SikaPlast® PH 8321

(formerly MasterPolyheed® 8321)

Retarding superplasticiser based on PCE

DESCRIPTION

SikaPlast® PH 8321 is an economical admixture based on modified polycarboxylic ether. The product has been primarily developed for applications in ready mix and site-batched concrete. SikaPlast® PH 8321 is specially designed to allow considerable reduction of mixing water while maintaining control on extend of set retardation.

SikaPlast® PH 8321 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

PRODUCT INFORMATION

Packaging	245kg drum
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost. Always refer to the packaging. Frost: If frozen or if precipitation has occurred, the Product may be used after thawing slowly at room temperature and intensive mixing.
Appearance / Colour	Light brown liquid
Density	1.05 ± 0.02 at 25°C
pH-value	≥ 6

APPLICATION INFORMATION

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 Types A,D,G

Recommended Dosage

Optimum dosage of SikaPlast® PH 8321 should be determined with trial mixes. As a guide, a dosage range of 300 ml 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.

Dispensing

SikaPlast® PH 8321 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 8321 to dry aggregate or cement is not recommended. Automatic dispensers are available.

Thorough mixing is essential and a minimum mixing cycle, after the addition of the SikaPlast® PH 8321, of 60 seconds for forced action mixers is recommended.

Compatibility

SikaPlast® PH 8321 is compatible with most of the Sika products. SikaPlast® PH 8321 is not compatible with Melamine or Naphthalene based admixtures and should not be used in conjunction in the same mix. SikaPlast® PH 8321 is compatible with lingo-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. SikaPlast® PH 8321 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.

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



SikaPlastPH8321-en-IN-(07-2024)-1-1.pdf

Product Data Sheet

SikaPlast® PH 8321
July 2024, Version 01.01
02130101100005372