

PRODUCT DATA SHEET

Sika® Plastocrete®-903

WATER -REDUCING AND RETARDING CONCRETE ADMIXTURE

DESCRIPTION

Sika® Plastocrete®-903 is new developed concrete admixture as a liquid set retarding type with a plasticizing effect. Substantial water reduction can be achieved without loss of workability.

USES

Sika® Plastocrete®-903 is used as set-retarding concrete admixture where high quality is required at difficult conditions, especially at high ambient temperatures. It extends the period of time when fresh concrete can be placed and compacted. Sika® Plastocrete®-903 is most suitable for ready-mixed concrete with PFA content of 0-30% on cement.

CHARACTERISTICS / ADVANTAGES

Sika® Plastocrete®-903 provides the following properties:

- Extended setting times at elevated temperatures
- Longlasting control of slump loss
- Improved workability without increased water content
- Reduced water without loss of workability
- Increased strengths with less cement
- Reduced shrinkage and creep
- Improved surface finish
- Chloride-free does not attack reinforcement

APPROVALS / CERTIFICATES

Complies with ASTM C-494 type D & G

PRODUCT INFORMATION

Composition	Blend of refined lignosulfonate, carboxylic acid and additives
Packaging	200 l/drum 1,000 l/tote
Appearance / Colour	Brown Liquid
Shelf life	12 months from the date of production if stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in protected area from direct sunshine at temperature between 5°C and 40°C.
Density	1.160-1.190 kg/l (at temperature 25°C)
pH-Value	6.5-8.5 Approx.

TECHNICAL INFORMATION

Specific Advice

Concrete shall be designed in accordance with ACI Standard Recommended Practice for Selecting Proportions of concrete (ACI 211.1-89). The water reducing/set retarding admixture shall be Sika® Plastocrete®-903, as manufactured by Sika or proved equal and shall comply with BS 5075, Part 1 or ASTM C-494 type D & G. It shall be used in strict accordance with the manufacturer's recommendations.

APPLICATION INFORMATION

Recommended Dosage

250 - 800 CC per 100 kg. of cementitious. Dosage recommend in normal condition is 400 - 600 CC per 100 kg of cementitious, or add more to longer set of concrete in difficult condition. Actual dosage rate required is dependent on :Effect sought ; Quality of cement and aggregates ; W/C ; Temperature. In many cases it is advisable to carry out trial mixes to establish the exact rate required.

Sika® Plastocrete®-903 is compatible with all types of Portland Cement, including S.R.C. type and Hydraulic Cement

Dispensing

Sika® Plastocrete®-903 should be dispensed directly into the mixing water prior to its addition to the aggregates. Accurate dispensing equipment is readily available from Sika.

IMPORTANT CONSIDERATIONS

Accidental overdosing of Sika® Plastocrete®-903 causes an extension of initial setting time. If this happens, consult supplier as soon as possible.

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.

LOCAL RESTRICTIONS

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

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.

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 (Thailand) Limited

700/37 Moo 5 Amata City Chonburi
Industrial Estate, T. Klong Tamhru
A. Muang, Chonburi 20000, Thailand
Tel : +66 3810 9500
E-mail : sikathai@th.sika.com
Website: tha.sika.com



Product Data Sheet

Sika® Plastocrete®-903
January 2020, Version 02.02
021303011000000281

SikaPlastocrete-903-en-TH-(01-2020)-2-2.pdf