

PRODUCT DATA SHEET

Sikament[®]-294

High range water-reducing and set retarding concrete admixture

DESCRIPTION

A highly effective superplasticizer with a set retarding effect for producing flowable concrete in hot climate and also a substantial water reducing agent for promoting ultimate strength. Sikament[®]-294 complies with ASTM C494 Type D & G.

USES

Sikament[®]-294 is used as a superplasticizer and set-retarding admixture in structural and mass concrete where long lasting slump and a controlled extension of setting time is required, such as:

- Large volume pours
- Long hauls concrete
- Foundations, Floor Slabs, Walls, Columns, Beams
- Slender components with densely packed reinforcement

FEATURES

Sikament[®]-294 provides the following properties:

As a superplasticizer with set retarding effect:

- Highly effective without increased w/c ratio
- Lasting control of slump loss
- Controlled setting time
- Avoidance of cold joints
- No adverse effect on ultimate strength

As a water reducer:

- Strength significantly increased
- Allow substantial cement reduction compared to plain concrete
- Especially suitable for hot climate
- No excessive air entrainment
- No adverse shrinkage effect
- Improved surface finish

PRODUCT INFORMATION

Composition	Naphtalene Sulfonate
Packaging	200 Lit PE Drum / 1000 Lit IBC Tank
Shelf life	12 months from the date of production if stored properly in undamaged, original, sealed packaging.
Storage conditions	Dry, cool, shaded place
Appearance and colour	Brown Liquid
Specific gravity	1.11-1.15 kg/l
pH-Value	8.0-11.0

APPLICATION INFORMATION

Recommended dosage	0.60–2.00 L per 100 kg of cement Typical: 0.80–1.60 L per 100 kg of cement 1.40–2.00 for special bore pile application Overdosing: Significant overdosing will result in increased workability and setting time of the concrete. However, provided concrete is cured effectively, ultimate strength and properties will not be affected. Note: Due to extended setting time, proper curing must be ensured. Do not vibrate green concrete or temper embedded rebars whilst setting.
Dispensing	Sikament®-294 can be added directly to the gauging water prior to its addition to the dry mixed aggregates or simultaneously with the gauging water at the batching plant. When added directly to the freshly mixed concrete, the plasticizing effect is more pronounced. For addition at job site, Sikament®-294 is added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.
Compatibility	Possible to combine with all Sikament®, Sika® Aer, Sika® Pump, Sikacrete® PP-1, but must be added separately to the mix and not pre-mixed prior addition.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

Overdosing will result in increased workability and setting time of the concrete; however provided that curing is effective, ultimate concrete strength and properties will not be affected. Use an appropriate concrete mixer and do not mix by hand. Trials mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance. Effective measures for concrete curing must be followed.

ECOLOGY, HEALTH AND SAFETY

Ecology: Do not dispose into water

Transportation class: Non-hazardous

Waste disposal: According to local law

Important notes: Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact.

In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention immediately.

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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. The Product Data Sheet can be obtained from aze.sika.com website or upon a request from the e-mail address info@az.sika.com.

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