

SikaPlast® MR-3

High range water-reducing and set retarding concrete admixture

Description A highly effective superplasticizer with a set retarding effect for producing free-flowing concrete in hot climate and also a substantial water reducing agent for promoting ultimate strength.

Uses SikaPlast® MR-3 superplasticizer is used for flowable concrete in:

- Floor slabs
- Foundations
- Slender components with densely packed reinforcement
- Walls
- Columns
- Beams

Advantages SikaPlast® MR-3 provides the following properties:

As a superplasticizer:

- Highly effective without increased w/c ratio or the risk of segregation
- Lasting control of slump loss
- No adverse effect on ultimate strength

As a water reducer:

- Ultimate 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
- Increased watertightness

Product Data

Form / Colour	Liquid / Dark brown
Packaging	5 / 25 / 200 litres drum
Storage	Dry, cool, shaded place
Shelf Life	Min. 1 year if stored properly in original unopened packaging



Technical Data

Base	Blend of Lignosulphonates and modified Polycarboxylates
Specific gravity	1.06 – 1.09 kg/litre
Chloride content	Nil

Application

Dosage	0.60 - 2.00 ltr per 100 kg of cement
Typical dosage	0.80 - 1.20 ltr per 100 kg of cement
Compatibility	Possible to combine with all Sikament®, Sika® Aer, Sika® Pump, Sikacrete® PP-1, but must be added separately to the mix and not premixed prior addition.

Cement types	All Portland cement including sulfate resistant cement
---------------------	--

Dispensing	<p>SikaPlast® MR-3 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.</p> <p>When added directly to the freshly mixed concrete, the plasticizing effect is more pronounced.</p> <p>For addition at job site, SikaPlast® MR-3 is added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.</p>
-------------------	--

Overdosing	<p>Significant overdosage 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.</p> <p>Note: Due to extended setting time, proper curing must be ensured. Do not vibrate green concrete or temper embedded rebars whilst setting.</p>
-------------------	--

Notes on application/ Limits	<ul style="list-style-type: none"> ■ Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. If assistance is required, please contact the Sika Technical Service Department. ■ Accurate dispensing equipment can be supplied by Sika Ltd. Vietnam. ■ Use an appropriate mixer and do not mix by hand.
-------------------------------------	---

Health and Safety Information

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.

Disclaimer	<p><i>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.</i></p>
-------------------	--



Sika Limited (Vietnam)
 Nhon Trach 1 Industrial Zone,
 Nhon Trach Dist., Dong Nai Province
 Tel: (84-61) 3560 700 Fax: (84-61) 3560 699
 vnm.sika.com, sikavietnam@vn.sika.com

