



BS EN 934-2

09

0086 CPD - 472347

SikaPlast® 10RM Powered by Viscocrete®

Mid-Range Water Reducing/Plasticising Concrete Admixture

Product Description

SikaPlast® 10RM Powered by Viscocrete is a liquid admixture for concrete which is used as a mid-range water reducer/plasticiser. It meets the requirements of BS EN 934-2.

Uses

■ SikaPlast® 10RM is a unique product that is particularly suitable for the production of ready mixed concrete

With its outstanding cost / performance SikaPlast® 10RM can be used for the following: -

- A wide range of applications where excellent workability is required
- Applications that require high quality concrete
- Highly efficient concrete
- Water reductions of between 10% - 20%

Characteristics / Advantages*

- Mid-range water reductions resulting in higher strengths and densities
- Improved dispersion properties
- Improved cohesion properties
- Improved early and ultimate strengths
- Improved rheology
- Improved durability
- Reduced dosage sensitivity
- Reduced segregation and bleeding
- Reduced shrinkage
- Reduced mix costs

* compared to concrete without admixture

Tests

Approval / Standards

Conforms to the requirements of BS EN 934-2 Table 2

Product Data

Form

Appearance / Colours

Brown liquid

Packaging

25 litre, 200 litre, 1000 litre and bulk

Storage Conditions / Shelf Life

12 months from date of production if stored properly in undamaged containers, in dry conditions at temperatures between 5°C and +25°C.
Protect from direct sunlight and frost.

Construction



Technical Data

Chemical Base	Blend of modified polycarboxylate and lignosulphonates
Density	1.06 kg/l (at +20 °C)
pH Value	4.0 – 5.0
Freezing Point	+1 °C
Chloride Ion Content	<0.10% w/w (chloride free)
Air Entrainment	Negligible
Effect on Setting	Slight extension to normal setting
Effect of Overdosing	Increased workability and segregation
Alkali Content	<0.25% as Na ₂ O equiv

Mechanical / Physical Properties

Compressive Strength Typical Data - SikaPlast 10RM[®] Powered by Viscocrete

Admixture	Dose (% w/w)	w/c ratio	Consistence S3 Slump (mm)	Air cont %	28 day Compressive Strength N/mm ²
Control CemIII/A (300 kg/m ³)	None	0.57	130	2.2	40.50
SikaPlast [®] 10RM Powered by Viscocrete	1.0	0.47	130	2.7	54.0

System Information

Application Details

Consumption / Dosage 0.5 – 1.5 % by weight of cement as mid-range water reducer

Application Conditions / Limitations

Compatibility

Sika[®] Admixtures:

- Compatibility information available on request

Cements:

- All cement combinations

Application Instructions

Dispensing

- SikaPlast® 10RM should be dispensed through suitable calibrated dosing equipment.

Application Method / Tools

- The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.
- SikaPlast® 10RM should not be added to dry cement
- SikaPlast® 10RM should be added with the mixing water

Notes on Application / Limitations

- When using SikaPlast® 10RM a suitable mix design is required and local material sources should be evaluated.
- Support from our Technical Department is recommended

Value Base

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.


Health and Safety Information

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.

CE Labelling

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Sika Ltd, Welwyn Garden City, Herts AL7 1BQ, UK 09 0086 CPD – 472347 BS EN 934-2: Table 2	
Chloride Ion	< 0.1%
Alkali Content	< 0.25%
Corrosion Behaviour	Contains only components from EN 934-1:2008, Annex A.1



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