

PRODUCT DATA SHEET

SikaPlast®-100 MR (GB)

MID-RANGE WATER REDUCING/PLASTICISING CONCRETE ADMIXTURE

PRODUCT DESCRIPTION

SikaPlast®-100 MR (GB) is a liquid admixture for concrete which is used as a mid-range water reducer/plasticiser. It meets the requirement of BS EN 934 -2.

USES

- SikaPlast®-100 MR (GB) is a unique product that is suitable for the production of ready mixed concrete
- Applications that require high quality concrete
- Applications that require improved consistence retention
- Utilisation of crushed rock fines in concrete
- Highly efficient concrete

CHARACTERISTICS / ADVANTAGES

- Mid-range water reductions resulting in higher strengths and densities
- Flexible application as both WRA and HRWR
- Less sensitive to variations in cement and aggregate types
- Improved cohesion properties
- Improved early and ultimate strengths
- Improved rheology
- Improved durability
- Reduced segregation and bleeding
- Reduced drying shrinkage
- Reduced mix costs
- * Compared to concrete without admixture

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Tables 3.1 & 3.2

DoP 00003287, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark

PRODUCT INFORMATION

Chemical Base	Modified polycarboxylate
Packaging	20 litre drum, 1000 litre IBC
Appearance / Colour	Brown liquid
Shelf Life	12 months from date of production if stored properly in undamaged containers.
Storage Conditions	Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
Specific Gravity	1.1 kg/l (at +20°C)
pH-Value	1.1 (+/-1.0)
Total Chloride Ion Content	<0.1%

TECHNICAL INFORMATION

Specific Advice

Alkali Content: <0.25%
Freezing Point: +1°C
Air Entrainment: Negligible
Effect on Setting: Slight extension to normal setting
Effect of Overdosing: Increased workability and segregation

APPLICATION INFORMATION

Compatibility

Sika Admixtures:
▪ Compatibility information available on request
Cements:
▪ All cement combination

Dispensing

SikaPlast®-100 MR (GB) should be dispensed through suitable calibrated dosing equipment.

APPLICATION INSTRUCTIONS

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® 100 MR should not be added to dry cement
- SikaPlast® 100 MR should be added with the mixing water

Notes on Application / Limitations

- When using SikaPlast®-100 MR (GB) a suitable mix design is required and local material sources should be evaluated.

FURTHER DOCUMENTS

Mechanical / Physical Properties

Compressive Strength -Typical Data

	Control CemIII/A (300 kg/m ³)	SikaPlast®-100 MR (GB) Powered by Vis- coCrete
Dose (% w/w)	None	0.6
w/c Ratio	0.60	0.50
Consistence S3	120	130
Slump (mm)		
28 day Com- pressive Strength N/mm ²	39.5	51.7

VALUE BASE

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

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 the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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.

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Product Data Sheet
SikaPlast®-100 MR (GB)
March 2020, Version 03.01
021301011000003287

SikaPlast-100MRGB-en-IE-(03-2020)-3-1.pdf

