

## 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 73352079, certified by Factory Production Control Body 1029 and provided with the CE mark

DoP 14238241, certified by Factory Production Control Body 0120 and provided with the UKCA mark

#### PRODUCT INFORMATION

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

Total Chloride Ion Content <0.1%

## TECHNICAL INFORMATION

<b>Specific Advice</b>	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
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## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.3 – 1.2 % by weight of cement
<b>Compatibility</b>	Sika Admixtures: ▪ Compatibility information available on request Cements: ▪ All cement combination
<b>Dispensing</b>	SikaPlast®-100 MR (GB) should be dispensed through suitable calibrated dosing equipment.

## 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.

## FURTHER DOCUMENTS

### Mechanical / Physical Properties

#### Compressive Strength -Typical Data

	Control CemIII/A (300 kg/m <sup>3</sup> )	SikaPlast®-100 MR (GB)
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 <sup>2</sup>	39.5	51.7

## ECOLOGY, HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## 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.

## 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.

## 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 cur-

rent 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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