

PRODUCT DATA SHEET

SikaPlast® R 8189

High Performance Mid-Range Concrete Water Reducer

DESCRIPTION

SikaPlast R 8189 is a formulated liquid admixture tailored for making superior and durable concrete, with special additives incorporated in the formulation to facilitate placing and finishing.

SikaPlast R 8189 is a powerful plasticizer which disperses and defloculates cement particles while delaying the hydration process, thereby retarding the initial and final set. It can be used to improve workability without the addition of extra water, or to allow reductions in the free water content. Due to improved dispersion of the cement particles the process of hydration proceeds under the optimum conditions, leading to improved strength characteristics with or without reduction in free water.

SikaPlast R 8189 is compatible with all type of Portland cements meeting recognized international standards. For use with other special cements, please contact Sika Representative.

USES

- Generally, various types of concrete where set retardation and superior performance are required
- Improving quality of conventionally placed concrete and pumped concrete.
- Improving plain, reinforced, precast, prestressed, light weight, mass concrete including RCC.
- Slip-formed concrete, high strength mixes, to control set of concrete particularly in high temperature conditions.

PRODUCT INFORMATION

Packaging	1,000 L / IBC
Appearance and colour	Brown Liquid
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging

FEATURES

- Good water Reduction Helps in achieving better durability. Improves compressive, flexural and bond strengths.
- Good workability Easier pumpability & placement.
- Good cohesion Reduces segregation.
- Reduced Permeability Improves watertightness of hardened concrete at w/c <0.55

CERTIFICATES AND TEST REPORTS

Complies with ASTM C 494 Type A and D

Storage conditions	Store at temperatures between +5°C and +40°C. Protect from direct sunlight and frost.
Density	1.140 - 1.160 kg/L @ 25°C
pH-Value	8.0 - 10.0

APPLICATION INFORMATION

Recommended dosage	SikaPlast R 8189 is recommended for use at a dosage rate of 300-600ml per 100 kg of cementitious materials. The optimum dosage of SikaPlast R 8189 is dependent on various factors including materials and conditions that would be experienced at site. Variations in the job conditions and concrete making materials employed may require dosage rates outside the recommended range. Consult Sika representative for assistance in determining the rate dosage.
Dispensing	SikaPlast R 8189 can be added into the mixing water or can be added to the wet concrete after the mixing water has been added. The addition of SikaPlast R 8189 to a dry concrete mix is not recommended. A separate dispenser and feed line must be used.

BASIS OF PRODUCT DATA

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.

ECOLOGY, HEALTH AND SAFETY

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.

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 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® R 8189
 March 2025, Version 02.01
 02130100000002344

SikaPlastR8189-en-TH-(03-2025)-2-1.pdf