

PRODUCT DATA SHEET

SikaPlast®-100 S

MID-RANGE WATER REDUCING CONCRETE ADMIXTURE

DESCRIPTION

SikaPlast®-100 S is a mid-range water reducer specifically formulated to produce concrete with improved water reduction and extended slump life.

USES

- SikaPlast®-100 S is used to produce workable concrete with a lower total water content and should be considered wherever high quality concrete is required
- SikaPlast®-100 S is ideal whenever the various handling properties of concrete must be improved and where placing conditions are difficult
- SikaPlast®-100 S is used with all grades of concrete.

CHARACTERISTICS / ADVANTAGES

Mix designs incorporating SikaPlast®-100 S can show economies through cement reduction, whilst still improving the plastic and hardened properties of the concrete. Batching water is reduced without loss of workability.

Typical performance advantages are:

- Increased strength and long term durability properties
- Reduced dimensions of long term shrinkage and creep
- Improved surface finish
- Placing in difficult situations is made easier
- Improved characteristics of concrete with difficult and harsh aggregate or sands

PRODUCT INFORMATION

Chemical Base	Aqueous solution
Packaging	200 litres, bulk delivery
Appearance / Colour	Orange liquid
Shelf Life	Twelve (12) months from date of manufacture when stored as stated.
Storage Conditions	Store in unopened, original containers free from frost and at temperatures between +5° and +35°C.
Specific Gravity	~ 1.05 kg/litre
Total Chloride Ion Content	No added chlorides

TECHNICAL INFORMATION

Specific Advice	<ul style="list-style-type: none"> ▪ Air entrainment: May have slight increase, tests are recommended ▪ Water reduction: Yes ▪ Effect on setting time: Up to 600 ml / 100 kg setting time is within 1 hour of control ▪ Freezing point: - 5°C ▪ Suitability: All types of Portland cements, including sulphate resistant cement
-----------------	---

APPLICATION INFORMATION

Recommended Dosage	Dosage: 400 - 800 ml Typical Dosage: 600 ml / 100 kg <i>Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. If assistance is required please contact the Sika Technical Department.</i>
Compatibility	Compatibility with other Sika Admixtures - yes, but add separately (do not pre-mix).
Dispensing	<ul style="list-style-type: none">▪ SikaPlast®-100 S is generally added to the initial batching water, prior to the addition of aggregates▪ For best results delay the dosage into the water until the cement and air entraining admixtures have been added and initially mixed with water▪ SikaPlast®-100 S may be added to the mixed concrete if required, however, further mixing should take place for at least five minutes.

LIMITATIONS

- As with all concrete, it is essential to protect mixes containing SikaPlast®-100 S from water evaporation during the crucial early age curing period. We recommend the use of Sika® Antisol curing membranes for this purpose. Refer to the Sika® Antisol product data sheet for further information
- To avoid moisture evaporation from the concrete surface during the finishing period Sika recommends the use of Sika® Film (refer to Sika® Film product data sheet)
- When using SikaPlast®-100 S in concrete containing air entraining admixtures, dosages of the latter may need to be adjusted to maintain the same target level of air entrainment.
- For additional information, please contact your local Sika Representative.

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.

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.

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 Safety Data Sheet (SDS) 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika (NZ) Limited

85-91 Patiki Road
Avondale, Auckland 1026
New Zealand
0800 745 269
www.sika.co.nz



Product Data Sheet

SikaPlast®-100 S

November 2019, Version 02.01
021301011000003467

SikaPlast-100S-en-NZ-(11-2019)-2-1.pdf