

PRODUCT DATA SHEET

SikaPlast®-100 AN

Mid Range Water Reducer - MWR

DESCRIPTION

SikaPlast®-100 AN is a True Neutral Set Mid Range Water Reducer specifically formulated to produce concrete with improved water reduction. SikaPlast®-100 AN combines the benefits of a water reducer and mid range water reducer with controlled ease on achieving and maintaining 140-200 mm slumps.

USES

SikaPlast®-100 AN is a True Neutral Set Water Reducer and at higher dosages a True Neutral Set Mid Range Water Reducer designed for use in the premixed concrete industry, SikaPlast®-100 AN is ideal for the following applications:

- As a True Neutral Set Water Reducing admixture used in combination with Accelerators, Retarders and Air Entrainers to produce a wide range of products and strengths, while maintaining the ability to accommodate fluctuations in temperature and set time requirements
- As a True Neutral Set Mid Range Water reducing admixture for concretes which require higher workability, optimal cost performance and a high degree of control. Due to the True Neutral Set characteristics the properties of the concrete can be adjusted to achieve desired properties using Accelerators and Retarders without compromising performance
- The above properties make this product ideal for industrial floor applications where good control of fresh and hardened concrete properties is essential.
- Post tensioned applications

CHARACTERISTICS / ADVANTAGES

Use of SikaPlast®-100 AN effectively achieves the following benefits:

- A single product fully capable of performing as a Water Reducer at lower dosages and a Mid Range Water Reducer at higher dosages
- True Neutral Set characteristics, which makes it ideal for use as an all year round admixture and in combination with set retarders and accelerators
- Improved shrinkage and creep behaviour.
- Improved plastic concrete properties.
- Increases service life of structures.
- Improve finishing
- Optimal concrete performance

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylate
Packaging	Bulk deliveries 205 litre drum 10 litre container
Shelf life	Stored at temperatures between 5°C and 35°C in unopened original containers, protected from direct sunlight and frost, shelf life is at least one (1) year.
Storage conditions	Store at temperature between 5°C and 35°C, protected from direct sunlight .
Appearance and colour	Light Brown
Specific gravity	1.06 g/cm ³

APPLICATION INFORMATION

Recommended dosage	Typical dosage rate is 500 – 1000 ml per 100 kg of total cementitious material . Optimum dosage depends on the type of concrete, site conditions, mix proportions, ingredients and desired plastic and hardened concrete properties. Laboratory and/or field trials are essential in determining the optimum dosage.
Dispensing	Add SikaPlast®-100 AN to the initial batching water. For best result, we recommend thorough mixing of wet concrete at 60 seconds per cubic metre of concrete. Add the remaining gauging water progressively after at least 2/3 wet mixing time to achieve the desired consistency.

Compatibility

SikaPlast®-100 AN can be used in conjunction with most of the Sika Concrete admixtures, with the exclusion of Sikament NN. All admixtures must be added separately.

SikaPlast®-100 AN when used with Air Entraining admixtures can result in significant increases in entrained air, therefore, trial mixes are recommended.

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.

FURTHER INFORMATION

May increase air content of concrete when used at normal dose.

IMPORTANT CONSIDERATIONS

As with all concrete it is essential to protect mixes containing SikaPlast®-100 AN from water evaporation during the crucial early age period. We recommend the use of Sika Film or Antisol curing membranes for this purpose.

For additional information, please contact your local Sika Representative.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

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