

PRODUCT DATA SHEET

SikaPlast® 3-in-1

Multifunctional neutral set water reducer (WR-MWR-HWR)

DESCRIPTION

SikaPlast® 3-in-1 is a true neutral set, water reducing admixture. SikaPlast® 3-in-1 has been specifically formulated to allow variable doses to be used. At low doses as a water reducer, at mid doses as a mid-range water reducer and at high doses as a high-range water reducer

USES

SikaPlast® 3-in-1 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 to High 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 neutral set properties make SikaPlast® 3-in-1 ideal for precast applications.
- Post tensioned applications

CHARACTERISTICS / ADVANTAGES

Use of SikaPlast® 3-in-1 effectively achieves the following benefits:

- A single product fully capable of performing as a Water Reducer, Mid-range Water Reducer and High-range water reducer.
- True neutral set characteristics, which makes it ideal for use as an all year round admixture and in combination with set retarders and accelerators.
- As a single product to be used for multiple applications.

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates
Packaging	Bulk deliveries 1000 litre IBC 205 litre drum 10 litre container
Shelf life	Stored at temperatures between 5oC and 35oC 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° and 35°C, protected from the direct sunlight.
Appearance and colour	Light brown liquid
Specific gravity	1.04 g/cm ³
Recommended dosage	<p>Typical dosage rates are</p> <ul style="list-style-type: none"> ▪ <u>Water Reducer</u> 400 – 600 ml per 100 kg of total cementitious material ▪ <u>Mid Range WR</u> 600 – 900 ml per 100 kg of total cementitious material ▪ <u>High-Range WR</u> 900-2000 ml per 100 kg of total cementitious material <p>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.</p>
Dispensing	SikaPlast® 3-in-1 is added with the batching water. Never add to a dry mix.
Compatibility	<p>SikaPlast® 3-in-1 can be used in conjunction with all the Sika concrete admixtures with the exclusion of Sikament® NN.</p> <p>All admixtures must be added separately.</p> <p>SikaPlast® 3-in-1 when used with Air Entraining admixtures can result in significant increases in entrained air, therefore, trial mixes are recommended.</p>

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

SikaPlast® 3-in-1 may slightly increase air content of concrete when used at normal dose.

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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