

PRODUCT DATA SHEET

SikaPlast® Stallion-2

Powered by ViscoCrete®
Super-plasticiser with extended workability

DESCRIPTION

SikaPlast®-Stallion 2 is a multi-purpose water reducer and superplasticizer with long lasting workability, utilizing Sika's 'ViscoCrete' polycarboxylate polymer technology.

USES

SikaPlast®-Stallion 2 may be used in both ready mix and on site batching applications:

- As a plant added high range water reducer, to provide excellent plasticity, while maintaining slump for 90 minutes and longer.

CHARACTERISTICS / ADVANTAGES

Water Reduction: SikaPlast®-Stallion 2 can be dosed at low to medium quantities to obtain water reduction from 5-18% and will achieve water reduction up to 20% at high dosage rates.

High Plasticity: The superplasticizing action of SikaPlast®-Stallion 2 provides highslump, flowing concrete that maintains excellent workability and may be placed with minimal vibration.

Extended Slump Life and Set Control: SikaPlast®-Stallion 2 has been formulated to provide controlled and predictable extended slump life for periods of 90 minutes and longer (depending on dosage) with increased set times at high dosages.

The combined high range water reduction and superplasticising action of SikaPlast®-Stallion 2 provides the following benefits:

- Extended workability.
- Improves performance of pumped concrete
- Higher ultimate strengths allow for greater engineering design flexibility and structural economies.

SikaPlast®-Stallion 2 does not contain formaldehyde, calcium chloride or any other added chlorides and will not initiate or promote the corrosion of steel present in the concrete.

PRODUCT INFORMATION

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| Chemical Base | Aqueous solution of modified polycarboxylates |
| Packaging | 200 Litre 1000 Litre containers |
| Appearance / Colour | Clear Light Brown liquid |
| Shelf Life | 12 months from date of production |
| Storage Conditions | Store properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost. |
| Density | 1,07 kg/litre |
| pH-Value | 4.5 +/- 0.5 |

APPLICATION INFORMATION

Recommended Dosage

Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project.

- Dosage range **0.2 – 1.5% by weight of cementitious**
- Typical dosage range **0.4 - 0.8 % by weight of cementitious**

APPLICATION INSTRUCTIONS

DISPENSING

SikaPlast®-Stallion 2 is added to the gauging water or simultaneously with it poured into the concrete mixer. For optimum utilisation of the high water reduction, we recommend thorough mixing at a minimal wet mixing time of 60 seconds.

The addition of the remaining gauging water – to fine tune concrete consistency – may only be started after 2/3 of wet mixing time, to avoid surplus water in the concrete.

SikaPlast®-Stallion 2 can also be added directly to the freshly mixed concrete in the concrete mixer at the end of the batching cycle.

If SikaPlast®-Stallion 2 has frozen and / or if precipitation has occurred, it may be used after thawing slowly at room temperature and after intensive mixing.

Combinations with other admixtures

SikaPlast®-Stallion 2 is highly effective as single admixture or in combination with many admixtures in the Sika System.

Please contact your local Sika representative for more information and assistance.

SikaPlast®-Stallion 2 will extend the set time of concrete at high dosages.

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 Material Safety Data Sheet 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.

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Product Data Sheet

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