

PRODUCT DATA SHEET

SikaPlast® Eco-80 SK

MWR – Mid-Range Water reducer

DESCRIPTION

SikaPlast® Eco-80 SK is a water reducing and workability-retaining admixture specifically formulated for extended slump life in concrete. SikaPlast® Eco-80 SK combines the benefits of a mid-range water reducer with a slump keeper to achieve extended slump life in 120-180 mm slump concrete.

USES

SikaPlast® Eco-80 SK is suitable to produce high performance concrete. It provides water reduction and slump life. The following types of concrete can use SikaPlast® Eco-80 SK:

- Concrete requiring extended slump life.
- Concrete containing harsh aggregates and manufactured sand.
- Reinforced, precast, prestressed, lightweight, normal weight or pumped concrete.
- Concrete in the 120-180 mm slump range that requires slump keeping.
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CHARACTERISTICS / ADVANTAGES

SikaPlast® Eco-80 SK is a unique concrete admixture used to improve the workability and slump retention of concrete mixtures. SikaPlast® Eco-80 SK uses innovative polycarboxylate polymer technology, which can be used in various concrete applications whenever extended slump retention and concrete plasticity without excessive set time delays is required.

Use of SikaPlast® Eco-80 SK delivers the following benefits to a concrete producer:

- Extended slump retention.
- Reduced or eliminated need for concrete re-tempering.
- Optimized concrete mix design resulting in cost savings.
- Ability to adjust the slump retention accordingly to transportation time and temperature.
- Reduced rejection rates due to issues related to concrete re-tempering.

PRODUCT INFORMATION

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| Composition | Aqueous solution of modified polycarboxylates |
| Packaging | Bulk deliveries 1000 litre IBC 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, shelf life is at least one (1) year. |
| Storage conditions | Store at temperature between 5°C and 35°C, protected from the direct sunlight. |
| Appearance and colour | Brown liquid |
| Specific gravity | 1.06 g/cm ³ |
| Recommended dosage | Typical dosage for general concrete production is between 400-1000ml per |

100kg of total cementitious material. Optimum dosage depends on site conditions, mix ingredients and desired plastic and hardened properties. Laboratory and field trials are essential in determining the optimum dosage.

Dispensing

Add SikaPlast® Eco-80 SK to the initial batch water. For best results we recommend thorough mixing of wet concrete. A minimum of 60 seconds mixing per cubic metre is recommended.
Do not add to a dry mix.

Compatibility

SikaPlast® Eco-80 SK can be used in conjunction with most of the Sika Concrete admixtures, with the exclusion of Sikament NN.
When used in combination with admixtures that might cause delay, specific site trial shall be done.

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® Eco-80 SK might slightly increase the air content of concrete at normal doses.

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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