

# PRODUCT DATA SHEET

## SikaPlast®-300 Eco

### MID-RANGE WATER REDUCER-MWR

#### DESCRIPTION

SikaPlast®-300 Eco has been formulated to provide both water reduction and excellent slump-keeping properties. SikaPlast®-300 Eco improves the finishability and pumpability of concrete made using manufactured sand.

#### USES

SikaPlast®-300 Eco is used for:

- Production of pre-mixed concrete to facilitate improved strengths, durability or economy.
- Long-distance concrete delivery.
- Production of concrete for use in extended pumping or placing operations.
- Production of concrete made with manufactured or poorly-shaped natural sands.
- Improved efficiency of cementitious materials.

#### CHARACTERISTICS / ADVANTAGES

SikaPlast®-300 Eco provides the following advantages:

- Water reduction, leading to improved strength and durability of the hardened concrete.
- Significant improvement in the slump-keeping ability of fresh concrete. This reduces the risk of rejected loads due to premature slump loss and maintains concrete workability for extended pumping or placing requirements.
- Improvement in the finishability and pumpability of concrete made using manufactured sand.
- Facilitates an increase in the percentage of manufactured or poor-quality natural sand in the concrete.
- Improved dispersion of the cementitious materials, improving strength, durability and mixing efficiency with the added advantage of reducing the consumption rate of a valuable natural resource.

#### PRODUCT INFORMATION

<b>Composition</b>	SikaPlast®-300 Eco is an aqueous solution of modified polycarboxylates.
<b>Packaging</b>	SikaPlast®-300 Eco is available in 10-litre pails, 205-litre drums or bulk delivery.
<b>Shelf life</b>	When suitably stored, as specified below, shelf life is at least one (1) year. Depending on storage conditions the shelf life may be higher than stated. Check with your local Sika representative before using a product that has exceeded the shelf life.
<b>Storage conditions</b>	Store at temperatures between 5°C and 35°C in original container, protected from direct sunlight and frost.
<b>Total Chloride Ion Content</b>	SikaPlast®-300 Eco contains no added chlorides.
<b>Concrete Mix Design</b>	When using SikaPlast®-300 Eco concrete trials are necessary to determine the correct dose rate and mix proportions necessary to achieve the desired/specified fresh and hardened concrete properties.

<b>Recommended Dosage</b>	Typical dosage for general concrete production is between 300 to 800 ml per 100 kg of total binder content. Optimum dosage depends on site conditions, mix ingredients, and desired plastic and hardened concrete properties.
<b>Compatibility</b>	SikaPlast®-300 Eco is compatible with most Sika concrete admixtures, before use check with your local Sika representative for compatibility advice. Do not use SikaPlast®-300 Eco with naphthalene-based concrete admixtures, erratic slump changes may result.
<b>Dispensing</b>	SikaPlast®-300 Eco should be added with the initial batch water. Never add to dry mix. Dispense different admixtures separately. For best results we recommend thorough mixing of the wet concrete for at least 60 seconds per cubic metre.

## 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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.

**Sika Australia Pty Limited**  
 ABN 12 001 342 329  
 aus.sika.com  
 Tel: 1300 22 33 48



Product Data Sheet  
 SikaPlast®-300 Eco  
 March 2017, Version 01.01  
 021301011000002815

SikaPlast-300Eco-en-AU-(03-2017)-1-1.pdf

