

PRODUCT DATA SHEET

SikaPlast® Eco-60

WRRE – WATER REDUCER RETARDER

DESCRIPTION

SikaPlast® Eco-60 is a water reducer retarder specifically formulated to produce concrete with improved workability and extended slump life.

USES

SikaPlast® Eco-60 is suitable to produce high performance concrete. It provides good water reduction, flowability and less “sticky” concrete.

The following types of concrete can use SikaPlast® Eco-60:

- Mixes containing harsh aggregates and manufactured sand
- Reinforced, precast, prestressed, lightweight, normal weight or pumped concrete.
- Concrete, where good water reduction and ease of placing and working with tools is needed.

CHARACTERISTICS / ADVANTAGES

Use of SikaPlast® Eco-60 in concrete improves the following properties.

- Good water reduction achieved, results in high density more impermeable concrete.
- Facilitates an increase in manufactured sand percentage.
- Increased Ultimate Strength Performance.
- Improved plastic concrete properties.

APPROVALS / CERTIFICATES

SikaPlast® Eco-60 meets and exceeds all requirements of Australian Standard 1478.1-2000 for Water Reducer Retarder (WRRe).

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylate
Packaging	Bulk deliveries 205 litre drum 10 litre pail
Appearance / Colour	Brown liquid
Shelf life	Shelf life is one (1) year. Depending on storage conditions the shelf life may be higher than stated.
Storage conditions	Store at temperatures between 5°C and 35°C, protected from direct sunlight and frost.
Density	1.08 g/cm ³
Concrete Mix Design	Add SikaPlast® Eco-60 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.

Recommended Dosage

Typical dosage for general concrete production is between 400-1000ml per 100kg of total cementitious material. Optimum dosage depends on site condition, job conditions, mix ingredients and desired plastic and hardened properties. Laboratory and field trials are essential in determining the optimum dosage.

IMPORTANT CONSIDERATIONS

- When using SikaPlast® Eco-60 setting time will depend on site conditions. This should be checked and predetermined with trial mixes.
- Please check compatibility when using with other admixtures.
- Do not use with naphthalene-based admixtures. May experience erratic slump changes.
- For additional information, please contact your local Sika Representative.

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 Safety Data Sheet (SDS) 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.

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