

PRODUCT DATA SHEET

Sikament® ECO WR

Mid-range Water Reducer

DESCRIPTION

Sikament® ECO WR is a mid-range water reducer specifically formulated to produce concrete with improved water reduction. Sikament® ECO WR combines the benefits of normal water reducer and high range water reducer with controlled ease on achieving and maintaining 120-160 mm slumps.

USES

Sikament® ECO WR is suitable to produce high performance concrete. It helps in greater water reduction, flowability and less "sticky" concrete.

The following types of concrete can use Sikament® ECO WR

- Reinforced, precast, prestressed, lightweight, normal weight or pumped concrete.
- Concrete, where higher reduced water contents with easy of placing and working with tools is needed.

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates
Packaging	Bulk deliveries, 1000 litre IBC, 205 litre drum, 10 litre container.
Shelf life	Stored at temperature between 5°C and 35°C in unopened original containers, protected from direct sunlight and frost, shelf life is one (1) year.
Storage conditions	Store at temperature between 5°C and 35°C, protected from direct sunlight.
Appearance and colour	Purple liquid
Density	1.03 g/cm ³ approximately
Recommended dosage	Typical dosage for general concrete production is between 400-1000 ml 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.
Dispensing	Add Sikament® ECO WR to the batching water. For best result, we recom-

CHARACTERISTICS / ADVANTAGES

Use of Sikament® ECO WR in concrete improves the following properties.

- Higher water reduction achieved, results in high density more impermeable concrete.
- Normal setting at higher doses compared with other water reducers.
- Improved shrinkage and creep behaviour.
- Increased Ultimate Strength Performance.
- Improved plastic concrete properties.
- Increases service life of structures.

APPROVALS / CERTIFICATES

Sikament® ECO WR meets and exceeds all requirements of Australian Standard 1478.1-2000 for Mid Range Water Reducer (MWR).

mend 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.

Compatibility

Sikament® ECO WR can be used in conjunction with all Sika Concrete Admixtures, except Sikament® NN.

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

May slightly increase air content of concrete when used at normal dose.

Do not use with naphthalene-based admixtures. May experience erratic slump changes.

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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