

Sikament[®] Eco WR

MWR – Mid-Range Water Reducer

Construction

Description	Sikament [®] Eco WR is a mid-range water reducer specifically formulated to produce concrete with improved water reduction and extended slump life. 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 <ul style="list-style-type: none"> • 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.
Advantages	Use of Sikament [®] Eco WR in concrete improves the following properties. <ul style="list-style-type: none"> • 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.
Storage and Shelf life	Stored at temperatures between 5°C and 35°C in unopened original containers, protected from direct sunlight and frost, shelf life is at least one (1) year. Depending on storage conditions the shelf life may be higher than stated. Please check with your Sika representative for shelf a life exceeded product.
Instructions for Use	
Dosage	Typical dosage for general concrete production is between 400-1000mls 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.
Mixing	Add Sikament [®] Eco WR 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.
Specification Type	Sikament [®] Eco WR meets and exceeds all requirements of Australian Standard 1478.1-2000 for Mid Range Water Reducer (MWR). Queensland Government Department of Main Roads approved.

Technical and Physical Data

Form	Aqueous solution of modified polycarboxylate
Colour	Purple
Density (20°C)	1.03 kg/litre approx.
pH-value (20°C)	4.0 ± 1.0
Chloride Content	No added chlorides
TEA Content	Does not contain triethanolamine
Air Entrainment	May slightly increase air content of concrete when used at normal dose
Packaging	20 litre pail 205 litre drum Bulk deliveries

Important Note

- When using Sikament® Eco WR setting time will depend on site conditions. This should be checked and predetermined with trial mixes.
- Alter mix designs to achieve Self Compacting Concrete (S.C.C).
- 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.

Handling Precautions

- Avoid contact with eyes and skin.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention immediately.
- A full Material Safety Data Sheet is available from Sika on request.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

