

Sikament[®] NN

HWR - High Range Water Reducer

Construction

Description	A highly effective dual action liquid superplasticiser for the production of high slump concrete or as a substantial water reducing agent for promoting high early and ultimate strengths.
Uses	Sikament [®] NN is used as a superplasticiser in the production of concrete such as: <ul style="list-style-type: none"> • Sprayed concrete • Slabs and foundations • Walls, columns and piers • Slender components with densely packed reinforcements • Textured surface finishes.
Advantages	It is also used as a water reducing agent leading to high early strengths in: <ul style="list-style-type: none"> • Prestressed concrete • Bridges and cantilever structures
Storage and Shelf life	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight and from frost, shelf life is at least one (1) year.
Application	
Dosage	Depending on the workability required, Sikament [®] NN is normally added at dose rates between 500 to 1500mls per 100kg cementitious. Exact dosage rate should be determined by site trials.
Mixing	Sikament [®] NN is best added directly to the freshly mixed concrete. Sikament [®] NN can also be added to the premix truck on site. In this case, concrete should then be mixed for a further three minutes before placement.
Application Method	Concrete mixed with Sikament [®] NN is mixed on site in the yard, and is transported to site in premix trucks. Concrete should be placed according to good concrete practices and proper curing procedures should take place.
Specification Type	Sikament [®] NN meets and exceeds all requirements of Australian Standard 1478.1-2000 for High Range Water Reducing Admixture (HWR). Queensland Government Department of Main Roads approved.

Technical Data

Form	Aqueous solution of sodium naphthalene formaldehyde sulphonate (SNS)
Colour	Brown
Density (20°C)	1.2kg/litre approx.
pH value (20°C)	7.0 ± 0.5
Chloride Content	No added chlorides
TEA Content	Does not contain triethanolamine
Air Entrainment	Slightly increased air content of concrete at normal dose rate
Packaging	20 litre pails 205 litre drums Bulk deliveries

Important Notes

- Site trials should always be conducted to determine the optimum dosage rate of Sikament[®] NN as a superplasticiser and a water reducer.
- Sikament[®] NN can be combined with other Sika concrete admixtures, however site trials are recommended.

Handling Precautions

- Avoid contact with the skin and eyes.
- 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 without delay.
- 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 most recent issue 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.

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