

Sika[®] Plastiment[®] BV45R

WRRre - Water Reducer Retarder

Construction

Description	Sika [®] Plastiment [®] BV45R is a water reducing and set retarding admixture used in concrete to increase workability and allows water reduction to be achieved while retarding the setting time of the mix.
Uses	Sika [®] Plastiment [®] BV45R can be used in concrete where: <ul style="list-style-type: none"> • Workability needs to be increased, but total water content must be lower. • Placing conditions are difficult and the handling properties of the concrete must be improved.
Advantages	<ul style="list-style-type: none"> • Combination water reducer and set retarder – excellent for hot conditions. • Economical due to cement reduction. • Improves plastic and hardened properties of concrete. • Reduces batching water without losing workability. • Increases concrete strength and durability properties. • Improved surface finish. • Easier concrete placement.
Storage and Shelf Life	Stored at temperatures between 0°C and 35°C in unopened original containers protected from direct sunlight and frost, shelf life is at least one (1) year.
Application	
Dosage	Typical dosage is 400ml /100kg of total cementitious material. However, it can be dosed between 200ml-550ml per 100kg of total cementitious material. Exact dosage rate should be determined by trials.
Mixing	<p>Sika[®] Plastiment[®] BV45R is added to the initial batching water, prior to the addition of aggregates. Best results are achieved when dosage into the water is delayed until the cement and air entraining admixture have been added and initially mixed with water.</p> <p>If Sika Plastiment BV45R is added directly to the concrete mix, further mixing of 1 minute per cubic meter of concrete should take place.</p>
Application Method	Concrete mixed with Sika [®] Plastiment [®] BV45R is transported to site in readymix trucks. Concrete should be placed according to good concrete practices and proper curing procedures should take place.
Specification Type	<p>Sika[®] Plastiment[®] BV45R meets and exceeds all requirements of Australian Standard 1478.1-2000 for Water reducer and retarder Admixture (WRRre).</p> <p>Queensland Government Department of Main Roads approved.</p>

Technical Data (Typical)

Form	Liquid based on polymer dispersion
Colour	Brown
Density	1.17 kg/litre approx.
PH Value	10 ± 1
Chloride Content	No added chlorides
TEA Content	Does not contain triethanolamine
Air Entrainment	May slightly increase air content of concrete at normal dose rates
Packaging	20 litre pail 205 litre drum Bulk Deliveries

Important Notes

- When using Sika® Plastiment® BV45R actual retardation of setting times will depend on site conditions. This should be checked and predetermined with trial batch dosages.
- When using Sika® Plastiment® BV45R in concrete containing Sika AER or other air entraining admixtures, dosages of air entrainer may need to be reduced. This is to maintain the same target level of entrainment.
- Compatible with other Sika admixtures.

Handling Precautions

- Avoid contact with 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.

