

# Sika ViscoCrete<sup>®</sup> 3015 LF

## HWRRe – High Range Water Reducer Retarder

Construction

<b>Description</b>	Sika ViscoCrete <sup>®</sup> 3015 LF is a high range water reducer retarder for production of concrete in hot climate needing greater water cut and long slump life. It is also effective for high strength concrete mixes designed containing GGBS or cement with fly ash and Kaolite or Silica fume. Depending on dosage of Sika ViscoCrete <sup>®</sup> 3015 LF, soft plastic concrete as well as, self-compacting concrete or super workable concrete can be produced.
<b>Uses</b>	Sika ViscoCrete <sup>®</sup> 3015 LF is suitable for the production of following types of concrete <ul style="list-style-type: none"> <li>• Hot weather concrete and concrete with <u>extended transportation</u> or placing time.</li> <li>• Concrete requiring high water reduction.</li> <li>• High strength concrete.</li> <li>• Self-compacting concrete (S.C.C) or super workable concrete.</li> </ul>
<b>Advantages</b>	When using Sika ViscoCrete <sup>®</sup> 3015 LF, the following concrete properties are obtained (due to surface absorption as well as separation of the cement particles): <ul style="list-style-type: none"> <li>• High workability, flow ability and finish ability.</li> <li>• Extremely high water reduction can be achieved, resulting in high early and later age strength concrete.</li> <li>• Improved shrinkage and creep behaviour.</li> <li>• Excellent flow ability achieved, results in better placement and compaction of the concrete.</li> <li>• Suitable for the production of Self Compacting Concrete and super workable concrete.</li> <li>• Reduced rate of carbonation of the concrete.</li> <li>• Chloride free.</li> </ul>
<b>Storage and Shelf life</b>	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.
<b>Instructions for Use</b>	
<b>Dosage</b>	Typical dosage for soft concrete production is 350mls-1500mls per 100kg of total cementitious material. For self-compacting concrete, typical dosage is 900mls-3000mls per 100kg of total cementitious material.
<b>Mixing</b>	Sika ViscoCrete <sup>®</sup> 3015 LF should not be added onto dry aggregates or cement.  For best plasticising effect, admixture is to be dosed with initial 70-85% of estimated total water followed by thorough minimal mixing of 60 –90 seconds per cubic metre. Desired final slump can be achieved with increments of remaining gauging water.
<b>Application Method</b>	Concrete should be placed according to good concrete practices and proper curing procedures should take place.
<b>Specification Type</b>	Sika ViscoCrete <sup>®</sup> 3015 LF will meet and exceed all requirements of AS1478.1-2000 High Range Water Reducing Retarding Admixture.  Queensland Government Department of Main Roads approved.

## Technical and Physical Data

Form	Modified co-polymer
Colour	Brown
Density (20°C)	1.09 kg/litre approx.
pH Value (20°C)	7.0 ± 1.0
Chloride Content	No added chlorides
TEA Content	Does not contain triethanolamine
Air Entrainment	May slightly increase air content of concrete
Packaging	20 litre pail 205 litre drum Bulk deliveries

### Important Note

- When using Sika ViscoCrete® 3015 LF actual setting time will depend on site conditions. This should be checked and predetermined with trial mixes.
- Special mix designs are required to achieve Self Compacting Concrete (S.C.C)
- Please check compatibility when using with other admixtures.
- Do not use with **naphthalene** based admixtures.
- 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 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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