

## Sikament® -R2004

### High Range Water Reducing and Retarding Concrete Admixture

<b>Product Description</b>	A highly effective super plasticizer with a slight set retarding effect for producing free-flowing concrete in hot climates. Also, a substantial water reducing agent for promoting high early and ultimate strengths. Complies to: ASTM C-494 Type G and BS 5075 Part 3 1983.
<b>Uses</b>	Sikament® -R2004 as a super plasticizer for flow concrete in : <ul style="list-style-type: none"><li>■ Floor slabs.</li><li>■ Foundations.</li><li>■ Slender components with packed reinforcement.</li><li>■ Walls.</li><li>■ Columns.</li><li>■ Beams and ceilings.</li></ul>
<b>Advantages</b>	Sikament® -R2004 provides the following properties : <u>As a super plasticizer</u> Substantial improvement in workability without increased water or the risk of segregation. Long lasting control of slump loss. No adverse effect on ultimate strengths. <u>As a water reducer</u> Early and ultimate strengths significantly increased. Up to 20% water reduction. Especially suitable for hot climates. No excessive air entrainment. No adverse shrinkage effect. Improved surface finish. Increased water tightness.  Chloride Free (according to British Standards).
<b>Technical Data</b>	
<b>Type</b>	Synthetic Dispersion.
<b>Colour</b>	Dark Brown.
<b>Density (at 20°C)</b>	1.195 kg/l
<b>Storage Conditions</b>	When possible protect from direct sunlight. Free from frost.
<b>Shelf life</b>	12 months when unopened.
<b>Packaging</b>	5 Kg & 20 Kg pails 220 kg drums (Bulk Tanks are available upon request)
<b>Application</b>	
<b>Dosage</b>	The dosage of Sikament® -R2004 will be between approximately 0.6% - 2.5 % by weight of cement, however, it is advisable to carry out trial mixes to establish the correct dosage rate required. Sikament® -R2004 although compatible with all types of Portland cement including SRC, may perform differently with variations in cement producers and cement chemical composition.
<b>Dispensing</b>	Sikament® -R2004 can be added separately to the freshly mixed concrete or directly to the mixing water prior to its addition to the aggregates. When added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter. Automatic and accurate dispensing equipment is available from Sika®.



## Safety Instructions

<b>Ecology</b>	Contain and collect with absorbent materials and dispose of in accordance with current local or national regulations.
<b>Transport</b>	Non-hazardous.
<b>Safety Precautions</b>	Contains material, which may in certain cases cause skin irritation: Cleanliness is required. In case of skin contact, wash thoroughly with soap and water: In case of eye contact, flush with water for 15 minutes, contact a Physician: wash clothing before re-use.
<b>Toxicity</b>	Non-Toxic under relevant health and safety codes.

## 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 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 to our current terms of sale and delivery. 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.

For further technical information, please consult our technical service department.



**Sika Egypt for Construction Chemicals**  
El Abour City  
1<sup>st</sup> industrial zone (A)  
Section # 10 Block 13035,  
Egypt

Tel : +202- 6100714/15/16/17/18  
Fax : +202- 6100759  
Mob : +2012- 3908822/55  
[www.sika.com.eg](http://www.sika.com.eg)

