Product data sheet
Edition 04, 2009

Sikament® R2002

High Range Water-Reducing and Retarding Concrete Admixture

Construction

Product Description	**Sikament® R2002** is a chloride free, highly effective superplasticizer with a slight set retarding effect for the production of free flowing concrete in hot climates. Also, a substantial water reducing agent for promoting high, early and ultimate strengths.
Uses	**Sikament® R2002** is used as a superplasticizer in the production of free flowing concrete such as - Slabs and foundations - Walls, columns and piers - Slender components with densely packed reinforcement - Piles
Advantages	**Sikament® R2002** provides the following properties: **As a Superplasticizer** Substantial improvement in workability without increased water or the risk of segregation. Long lasting control of slump loss. No adverse effect on ultimate strengths. **As a Water Reducer** Early and ultimate strengths significantly increased. Up to 20% water reduction. Especially suitable for hot climates. No adverse shrinkage effect. Chloride free (according to British Standards)
Test Standards	**Sikament® R2002** complies with ASTM C494 Type G and B.S.5075 Part 3 1983

Product Data

Type	Modified Polymers Dispersion.
Form	Brown liquid
Packaging	250 Kg drums and 1000 Kg flow bins Bulk supply in tanker trucks possible on demand
Storage condition	Store in a dry minimum area between 5ºC and 35ºC. Protect from direct sunlight
Shelf life	12 months minimum from date of production if stored properly in original unopened packaging

Technical Data

Density at 25ºC	Approximately 1.155 kg/Lt ± 0.015
pH	8.0 ± 1.5
Chloride content	Nil (EN 934-2)

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Application Details

Dosage	0.8 - 2.5% by weight of cement. Exact dosage rates are dependent on the type of effect required, quality of cement, aggregates, water cement ratio and ambient temperature. Therefore, in many cases it is advisable to carry out trial mixes. **Sikament® R2002** is compatible with all types of Portland cements including S.R.C.. Accidental over dosing of Sikament® R2002 will cause extended delay in the initial set, however, the final strength will not be impaired
Dispensing	**Sikament® R2002** can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced). The correct quantity of Sikament R2002 should measured by means of a recommended dispenser.
Curing	Fresh concrete must be cured properly, especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika Antisol products as a curing agent or apply wet hessian.
Compatibility	**Sikament® R2002** can be combined with Sika Aer. It is also compatible with sulfonate resistant cement.
Cleaning	Clean all equipment and tools with water immediately after use.
Remarks	When accidental overdosing occurs, the set retarding effect increases and additional air entrapped. During this period the concrete must be kept moist in order to prevent premature drying out.

Safety

Precautions	soap. Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention without delay. Skin barrier cream, safety goggles and rubber gloves are recommended.
Ecology	Do not dispose of into water or soil but according to local regulations.
Toxicity	Non-toxic under the relevant Swiss health and safety codes.
Transportation	Non-hazardous.

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