

Sikament® -200G

High Range Water Reducing Concrete Admixture

Product Description Sikament® -200G is highly effective dual action liquid super plasticizer for the production of free flowing concrete or as a substantial water-reducing agent for promoting high early and ultimate strengths.

It complies with ASTM C-494 Type A&F and BS 5075 Part 3.

Uses Sikament® -200G is used as a super plasticizer in the production of free flowing concrete such as:

- Slabs and foundations.
- Walls and columns.
- Slender components with densely packed reinforcements
- Beams and ceilings

It is also used as a water-reducing agent leading to high early strength concrete such as:

- Precast concrete elements.
- Pre-stressed concrete
- Bridges and cantilever structures.
- Concrete where formwork must be removed quickly or early loading applied.

Advantages Sikament® -200G provides the following properties:

As a Super Plasticizer:

Workability is greatly improved. Increased place ability in slender components with densely packed reinforcement. Easy placing, less vibrating. Normal set without retardation. Significantly reduces the risk of segregation. Improved water tightness.

As a Water Reducer:

Up to 15% water reduction. 16 hours compressive strengths increased by up to 100%. 28 days strengths improved 40%.

Chloride-free-does not attack reinforcement.

Technical Data

Base Salphonated Naphthalene based polymer

Appearance / Colour Brownish liquid

Density (at 20°C) 1.180 kg/l (ASTM C-494)

Packaging 5 and 20 kg pails
220 kg drums
Bulk Tanks packing available upon request

Storage Store in dry conditions, protected from direct sunlight and frost.

Shelf Life 12 months from date of production if stored properly in undamaged and unopened original sealed packing.



Application

Dosage	0.6 - 2.5 % by weight of cement depending on desired workability and strength. Trial mixes shall be carried out for the determination of the suitable dosage.
Dispensing	Sikament® -200G 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). For Ready-mix concrete, Sikament® -200G is added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.
Important Notes	Sikament® -200G is compatible with all types of Portland cement including S.R.C. and H.B.F. cements.

Accidental overdosing of Sikament® -200G causes an extension of the initial setting time, however, no excessive amount of additional air will be entrained.

Safety Instructions

Safety Precautions	Accidental splashes to the skin must be washed off with water and soap. Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention.
Ecology	Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
Transport	Non-hazardous
Toxicity	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 the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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