

Sikament® 5203 NS

Superplasticizing Admixture – Retarding type

Construction

Product Description

Sikament® 5203 NS Imparts high workability, prolonged workability retention and allows a large decrease in water content

Uses

Sikament® 5203 NS a superplasticizer for free flowing concrete in floor, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural and non structural elements.

Specially recommended for the following types of concrete:

- High performance concrete
- Ready mixed concrete
- Pumped concrete
- Site batched concrete

Characteristics / Advantages

Sikament® 5203 NS produces a more uniformly cohesive high quality free flowing concrete. It has following advantages :

- High water reduction.
- Higher strength and density
- Improved consistence retention
- Improved durability
- Improved water tightness
- Improved surface finish
- Improved cohesion properties
- Suitable for hot weather conditions

Tests

Approval / Standard	IS 9103-1999, ASTM C494
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Product Data

Form

Appearance / Colour	Dark Brown Liquid
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Packaging	250 kg/ Bulk supply
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Storage

Storage Conditions / Shelf -Life

12 months from date of production if stored properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.



Technical Data	
Chemical Base	Modified Napthalene Formaldehyde Sulphonate
Relative Density	~ 1.25 kg/l at 25°C
pH Value	≥ 6
System Information	
Application Details	
Consumption / Dosage	0.5% to 2.0% by weight of cement .Higher dosage may be used if agreed by engineer and consultant Actual dosage to be finalised on the basis of site trials. Stir well before use
Application Conditions/Limitations	
Compatibility	Sikament® 5203 NS may be combined with many other Sika® products. Important: Always conduct trials before combining products in specific mixes and combinations. Compatible with all types of cement and cementitious materials.
Application Instructions	
Dispensing	Sikament® 5203 NS can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added. The addition of Sikament® 5203 NS to dry aggregate or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.
Application method/ Tools	By use of Sikament® 5203 NS concrete of highest quality can be produced. The standard rules of good concreting practice, concerning production, placing and testing are to be followed. Fresh concrete must be cured as per the relevant standard.
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.
Notes on application / Limitations	Excessive water addition or overdosing may cause bleeding or segregation. Overdosing may cause extension of initial and final setting times. If frozen and / or if precipitation has occurred, Sikament® 5203 NS may be used after thawing slowly at room temperature and after intensive mixing.
Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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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