

Sika admixtures: Better concrete by design

Sika AG was founded in 1910 with the advent of the very first construction chemical called *Sika 1*. Sika India Pvt Ltd, a joint venture with Sika AG, has introduced to the Indian market, a selected range of products relevant to its needs. Their admixture range includes superplasticisers, high performance plasticisers, water proofing admixtures, mineral admixtures, accelerators/sprayed concrete, air entraining agents, pumping aids, quick setting compounds, corrosion inhibitors and curing compounds.

Sikament – New generation superplasticiser

Sikament is a new generation superplasticiser which is used in high performance concrete. Its use allows the design of concrete to obtain high and exacting structural standards. They give complete control in the production of high quality concrete for use where strength and low permeability are paramount.

Sikament additive with their high water reduction and workability retention properties gives:

- high early strength
- high ultimate strength
- low permeability
- high flowability
- optimum cement content
- pumpable concrete.

Sikament has been used in several construction projects namely,

- second Howrah bridge,
- Metro rail, Kolkata,



Metro Rail, Kolkata

- Thane Creek railway bridge,
- Sampada railway station,
- mass housing project at Goregaon, Mumbai – to name a few.

Sika Viscocrete – for self compacting concrete

Sika Viscocrete SCC is used in the production of self compacting concrete (SCC). It is extremely cohesive and flowable without segregation, which makes SCC capable of being placed without vibration.

Advantages

Sika Viscocrete SCC has several benefits.

Performance: Its fluid and soft consistency allows fast placing of concrete.

Noise reduction: Placing the concrete without vibration gives a dramatic reduction in noise.

Economy: Speed of placing and possible reductions in man power and equipment result in lower overall cost.

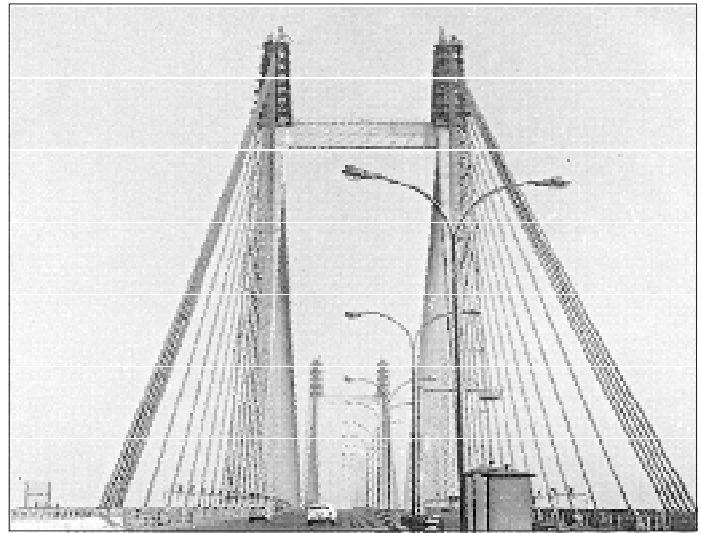
Flowability: It allows production of complex and fine elements even through congested reinforcement.

Durability: A more homogeneous surface layer is formed which will reduce the permeability and increase resistance against chloride ingress, carbonation and other chemical attack.

Sika has an R&D facility which is recognised by the government of

India. It is based at Kalyani in West Bengal and specialises in construction chemicals for hot weather countries.

It has 12 sales offices, 125 dealers and applicators all over India. It is also equipped with a team of technical personnel spread out over India, to advice customers on construction problems and provide consultancy on concrete mix design.



Second Howrah bridge

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Some of the latest chemical admixtures used have been presented here. Items reported in this feature are based on information supplied by manufacturers and developers. The description of these items do not represent endorsement by this Journal or by The Associated Cement Companies Limited.