

ISO FLOW 505S[®]



High Range Water Reducing Admixture Especially For SCC

FEATURES

ISO FLOW 505S[®] is a new generation high range water reducing admixtures based on modified polycarboxylate ether polymers specially formulated for applications where SCC and durability are required. Concrete mixes containing.

ISO FLOW 505S[®] can be optimised for delivery in remote locations and use in hot and cold climates.

ISO FLOW 505S[®] has excellent plasticizing effects which are able to enhance concrete's consistency by several consistency classes e.g. from F1 up to F6 (is equivalent to S1 – S6). The high performance superplasticizer is especially suitable for producing self compacting concrete (SCC).

ADVANTAGES

- Producing high performance concrete with low low W/C ratio.
- Enhancement the flowability of concrete without increase in the setting time.
- Improves impermeability to water.
- Producing concrete without bleeding or segregation.
- Increase the abrasion resistance of concrete.
- Improves the concrete early and ultimate. compressive strength.
- Improves the workability retention performance.
- Easy placing of formwork.
- Improves durability.

APPLICATION

ISO FLOW 505S[®] is recommended for all areas of use of high-performance concrete in the ready-mix industry

- Super slump retaining concrete with equal or less water content than conventional admixtures.
- SCC without segregation.
- Concrete mixtures containing silica fume, GGBS, or PFA.
- Long distance transport.
- Hot weather concreting.
- Mass concrete.
- Ultra high performance concrete.
- Particularly useful in precast concrete.
- Highly durable concrete.

PACKAGING

ISO FLOW 505S[®] is available in IBC and other pack size.

PRODUCT DATA

Colour	Natural
length	6, 12, 18, and 24 mm
Diameter	13 ± 10% micron nominal
Design	Monofilament Fiber
Base	Glassfiber

STORAGE

ISO FLOW 505S[®] Store under cover, out of direct sunlight and protect from extremes of temperature.

Standard specifications

ISO FLOW 505S[®] conforms to BS EN 934-2 & ASTM C494 Type G.

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DOSAGE

Recommended dosage range 0.2 – 3 mass-% of the cement content.

EFFECT OF OVERDOSE

Overdose of **ISO FLOW 505S[®]** may result in delay of initial setting, higher workability and may result in increased air content.

Compatibility

ISO FLOW 505S[®] is suitable for concrete designs containing OPC or SRC cement, micro-silica or silica fume, fly ash (PFA) and ground granulated blast furnace slag (GGBS).

WORKING PRINCIPLE

ISO FLOW 505S[®] improves the cement dispersion within the concrete significantly. This property allows the formation of a homogenous and low viscosity cement paste which ensures an improved workability and facilitates the compaction of concrete.

Its special built extends the processing time purposefully and meets the special requirements challenging the ready-mix concrete industry.

METHOD OF USE

It is preferable to add **ISO FLOW 505S[®]** after adding 60% of the water to the concrete, or at the end of mixing.

In forced action mixers the mixing time should be at least 60 seconds per m³.

PRECAUTION

ISO FLOW 505S[®] should not be used in conjunction with any naphthalene based admixture.

SHELF LIFE

Approx. 1 year from date of production if stored properly.

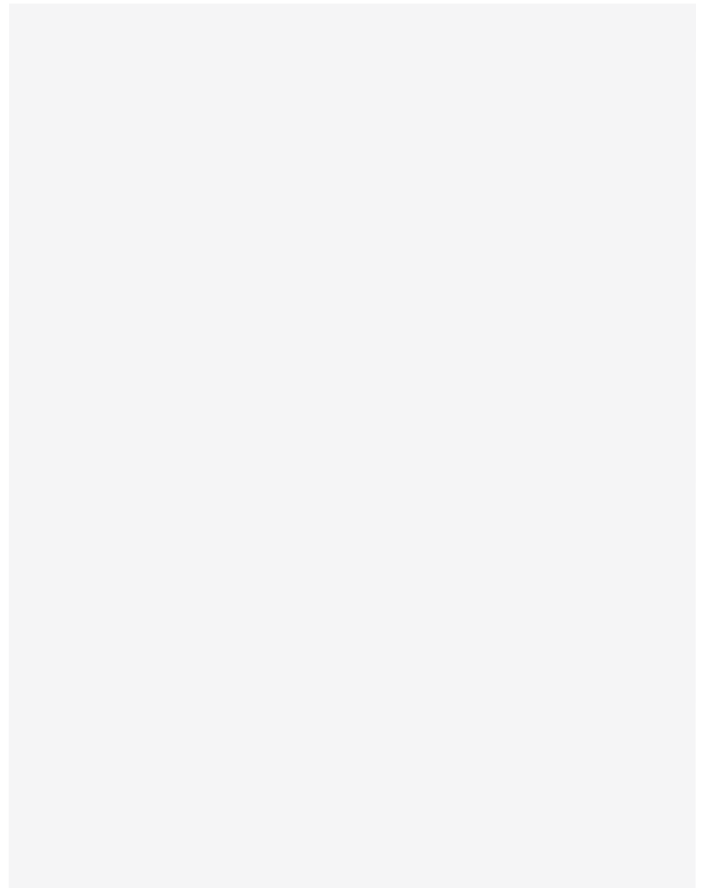
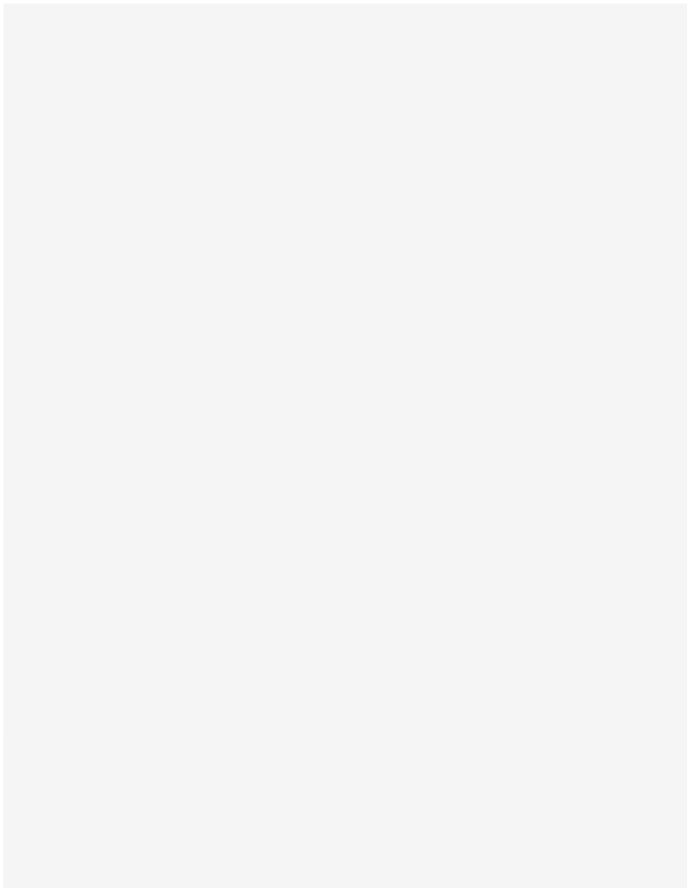
HEALTH, SAFETY & ENVIRONMENT

ISO FLOW 505S[®] is not classified as hazardous according to the CLP regulations. See safety data sheet for further information.

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Legal Notes

The information provided in this data sheet, are given in good faith based on our current knowledge and experience of the product when properly stored, and applied by professional applicator, and under normal conditions in accordance with the mentioned recommendations. In practice under actual site condition differences are such that no warranty can be issued nor any liability can be taken, arising out of any legal relationship whatsoever. The product must be tested onsite to check its suitability for the intended application and purpose



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