

ISO FLOW 525RA[®]

ISOTEC

RANGE SUPERPLASTICIZER FOR READY MIX CONCRETE WITH ULTRA HIGH STRENGTH

FEATURES

ISO FLOW 525RA[®] is a high performance super plasticizing admixture based on modified polycarboxylate ether polymers that has been developed to enhance early age strength development of concrete.

ISO FLOW 525RA[®] 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).

ISO FLOW 525RA[®] may reduce the compaction energy applied to concrete. Concrete manufacturers, contractors and applicators may therefore achieve an economical and technical benefit.

APPLICATION

ISO FLOW 525RA[®] is recommended for all areas of use of high-performance concrete in the ready-mix industry.

- High workability concretes where accelerated setting and early age strength
- High flowable concrete with low water cement ratio
- Enhance robustness and consistency in concrete quality with low stickiness
- Highly durable concrete
- SCC with High early strength concrete without segregation
- Particularly useful in precast concrete manufacture where early strength gains.
- Improves impermeability and durability of concrete

PRODUCT DATA

Homogeneity	Homogenous
Colour	Amber
State	Liquid
Density (20°C)	1.08 ± 0.02
pH-value	5 ± 1
Chloride content	chloride free acc. to BS EN 934-2
Alkali content (Na ₂ O equivalent)	< 8.5 mass-%
Workability	From +1 °C

Dosage

Recommended dosage range 4 – 0.2 mass-% of the cement content.

Effect of Overdose

Overdose of **ISO FLOW 525RA[®]** may result in delay of initial setting, higher workability and may result in increased air content.

Compatibility

ISO FLOW 525RA[®] 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).

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The ISOTEC logo is a red shield-shaped emblem with the word "ISOTEC" in white, bold, sans-serif capital letters.

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Standard specifications

ISO FLOW 525RA[®] conforms to BS EN 2-934 & ASTM C494 Type G

Working Principle

ISO FLOW 525RA[®] 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 525RA[®]** 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 525RA[®] should not be used in conjunction with any naphthalene based admixture. When using other admixtures in the same concrete mixture, the products should be added separately and must not be blended prior to addition. Using more than one admixture requires suitability and preliminary tests in order to ensure the required combination of its effects is attained.

Store at a temperature above 10° C. If the product is stored at a temperature below 10° C, some f lakes may appear. The product will recover its properties after a long storage at a temperature above 10° C and light agitating. Do not store the product at high temperatures over a long period of time.

Storage

Store under cover, out of direct sunlight and protect from extremes of temperature.

PACKAGING

ISO FLOW 525RA[®] is available in IBC and other pack size.

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Shelf Life

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

Health, safety & environment

ISO FLOW 525RA[®] is not classified as hazardous according to the CLP regulations.
See safety data sheet for further information.

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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