

Fosroc® Auramix 700SR

constructive solutions

Revolutionary slump-retaining, superplasticiser / high range water reducer. Displays excellent dispersion and water reduction capability's suitable for the ready-mix industry.

Description

Fosroc Auramix 700SR is a unique combination of polycarboxylate polymers which act through a strong steric hindrance mechanism, outperforming conventional superplasticisers.

Auramix 700SR has been specifically engineered towards the Ready Mix concrete industry for its superior high range water reducing and slump retaining capabilities. High Workability retention is achieved by delaying absorption onto the cement particles using excellent dispersion performance.

With Auramix 700SR you can achieve excellent retention without any set delay or any reduction in strength at 24 hours and shows excellent versatility over different cement types.

Uses

- Ability to produce High workability concrete with Slump Retention of over 2 hours.
- Suitable for High rise/Pumped concrete or long distance deliveries.
- Ideal for producing Self Compacting Concrete (SCC) and high workability concrete.
- Low water to cement ratios provides long term durability and improves the concretes resistance to sulphate attack.
- Works over a wide range of slump classes (S3 to SF3)

Advantages

- Excellent retention levels for High contents of GGBS and PFA
- Used in the production of Self Compacting Concrete (SCC) and high workability concrete displays improved consistency this requires little or no vibration.
- Exhibits concrete of an extremely low viscous nature. This enables floating and finishing to be made less labour intensive.
- Confidence that concrete will be the same on site as batched at the Ready mix plant.
- Excellent strength development with no set retardation.
- Robust consistent performance across different cement sources and cementitious combinations.
- Chloride free. Ideal for concrete containing embedded steel.

Technical support


Fosroc provides a technical advisory service for on site evaluation and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and products for use with fresh and hardened concrete.

Typical dosage

For each application the optimum dosage of Fosroc Auramix 700SR is best established by trial mixes with the same site materials in use under conditions that will be experienced on site.

The typical dosage range is 0.4 to 1.6 litres / 100 kg of cementitious content.

For further advice please contact the Fosroc Technical Department.

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Auramix 700SR	
High Range water reducing/Superplasticizing Admixture EN 934-2:T3.1/3.2	
Water Reduction	≥ 12% compared with Reference mix
Increase of consistence	Increase ≥ 120mm from initial slump or Increase ≥ 160mm from initial flow
Retention of Consistence	At 30 mins ≥ Reference mix at initial
Compressive Strength	Fulfilled
Air Content:	Fulfilled
Corrosion Behaviour	Contains components only from EN934-1: Annex A.1
Dangerous Substances	NPD
Durability	NPD

Characteristics

Nature	Liquid
Colour	Amber
Specific gravity	1.050 - 1.070
pH	6.0 +/- 1
Chloride content	<0.1%
Na2O equivalent	<0.5%
Freezing point	Sensitive to freezing

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Application

Fosroc Auramix 700SR is supplied ready for addition to concrete at the batching plant.

Dispensing

The correct quantity should be measured by means of a suitable dispenser at the time of batching the concrete. It's best added with the latter part of the mixing water.

Effects of overdosing

Overdosing above the recommended dosage range may promote segregation and excessive bleeding of the concrete mix. In the event of a suspected overdose please consult the Fosroc Technical Department.

Compatibility

With cements

Auramix 700SR is suitable for use with all types of Portland cement and cement replacement materials e.g. GGBS, PFA and micro silica.

With other admixtures

Auramix 700SR is compatible with other admixtures in the Fosroc range. Admixtures should never be premixed prior to their addition to the concrete mix.

Contact the Fosroc Technical Department for further advice on the effects of various admixtures.

Packaging

Auramix 700SR is available in bulk supply or 20 litre drums.

Storage

Auramix 700SR has a minimum shelf life of 12 months provided the temperature is within 2°C to 50°C. Should the product become frozen, the properties of Auramix 700SR can be homogenised by thorough agitation of the completely thawed product.

Precaution

Health and safety

For further information consult the product safety data sheet for this product.

Fire

Auramix 700SR is water based and non – flammable.

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Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

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