

# Fosroc® Auracast 220A



constructive solutions

## Innovative accelerating high range water reducing/ superplasticising admixture

### Description

Fosroc Auracast 220A is a unique combination of polycarboxylate polymers which display a superior dispersion performance.

Fosroc Auracast 220A has been specially formulated to accelerate cement hydration and increase strength development.

Fosroc Auracast 220A has been specifically engineered towards precast concrete industry for its superior high range water reducing and high strength capabilities.

Fosroc Auracast 220A also shows excellent robust performance and is less sensitive to aggregate and moisture fluctuations.

### Uses

- Producing high workability concrete for precast elements
- Ideal for producing Self Compacting Concrete (SCC) with no bleeding or segregation.
- High strength / low W/C ratio concrete

### Advantages

- Improved high early and late age strength
- Improved cohesion and reduced risk of bleeding and segregation.
- Exhibits concrete of an extremely low viscous nature.
- Reduced workability loss
- Improved surface finish
- Robust consistent performance across different cement sources and cementitious combinations.
- Chloride free. Ideal for concrete containing embedded steel.
- Faster mould turnaround
- Works over a wide range of slump classes (S3 to SF3)

### Properties

Appearance	Amber liquid
pH	5 +/- 1
Specific gravity	1.085 @ 20°C
Chloride ion content	≤0.1% by mass
Alkali content	≤2.0% by mass

### Standard compliance

Fosroc Auracast 220A complies with EN934-2: Table 3.1 and 3.2 as a high range water reducing / superplasticising admixture.

 <b>1073</b> <b>14</b> <b>1073-CPR-7412</b>	 <b>0086</b> <b>21</b> <b>0086-CPR-473151</b>
<b>DOP: UK9-184</b>	
<b>Fosroc International Limited</b> Drayton Manor Business Park, Coleshill Road, Tamworth, UK. B78 3XN	
<b>Auracast 220A</b>	
High Range water reducing/Superplasticising 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: 2008 Annex A.2: Thiocyanates
Dangerous Substances	NPD
Durability	NPD

### 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 Auracast 220A 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.

### Application

Fosroc Auracast 220A is supplied ready for addition to concrete at the batching plant.

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## Dispensing

The correct quantity should be measured by means of a suitable dispenser at the time of batching the concrete. It is 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

Fosroc Auracast 220A is suitable for use with all types of Portland cement and cement replacement materials e.g. GGBS, PFA and micro silica.

### With other admixtures

Fosroc Auracast 220A 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

Fosroc Auracast 220A is available in bulk supply or 20 litre drums.

## Storage

Fosroc Auracast 220A 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 Fosroc Auracast 220A can be homogenised by thorough agitation of the completely thawed product.

## Precautions

### Health and safety

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

### Fire

Fosroc Auracast 220A 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 or information given by it. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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