

# Fosroc® Auracast 550 HE



constructive solutions

## Superb high range water reducing, early strength accelerating, and viscosity reducing superplasticising concrete admixture

### Description

Fosroc Auracast 550 HE is a unique combination of new generation polycarboxylate polymers and hydration accelerators, which display excellent dispersion, low viscosity, and early strength accelerating performance.

Fosroc Auracast 550 HE has been specially engineered towards the precast concrete industry for high workability and high early strength concrete, particularly pre-stressed concrete.

Fosroc Auracast 550 HE also shows excellent robustness and is less sensitive to aggregate and moisture fluctuations and to different cement sources and types.

### Uses

- Producing high workability concrete for precast elements, providing ease of mould filling and less workmanship where access and dense reinforcement can be a challenge.
- Ideal for producing Self Compacting Concrete (SCC) with no bleeding or segregation.
- High early strength concrete, suitable for pre-stressed concrete.
- High strength / low W/C ratio concrete.

### Advantages

- Provides fresh concrete with high workability and low viscosity.
- Reduced workability loss.
- Reduced risk of bleeding and segregation.
- Superb early and late age strength.
- Faster mould turnaround.
- Improved surface finish.
- Robust consistent performance across different cement sources and types.
- Chloride free. Ideal for concrete containing embedded steel.

### Properties

Appearance	Amber liquid
pH	5 +/- 1
Specific gravity	1.07 +/- 0.02
Chloride content	≤ 0.1% by mass
Alkali content	≤ 2.0% by mass

### Standard compliance

Fosroc Auracast 550 HE complies with EN934-2: Table 3.1 and 3.2 as a high range water reducing / superplasticising admixture.

<b>CE</b> <b>0086</b>	
Fosroc International Limited Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3XN, UK. <b>14</b> <b>DoP UK9-175</b> <b>0086-CPR-473151</b>	
Auracast 550 HE	
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: Annex A.1. and 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 550 HE 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 0.5 to 1.6 litres / 100 kg of cementitious content.

For further advice please contact the Fosroc Technical Department.

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### Application

Fosroc Auracast 550 HE 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 is best added with the latter part of the mixing water.

### Effects of overdosing

Dosages above the recommended range may promote segregation and excessive bleeding of the concrete mix. Overdosing may also affect high early strength performance. In the event of a suspected overdose please consult the Fosroc Technical Department.

### Compatibility

#### With cements

Fosroc Auracast 550 HE is suitable for use with all types of Portland cement and supplementary cementitious materials e.g. GGBS, PFA, limestone filler, micro silica, etc.

#### With other admixtures

Fosroc Auracast 550 HE 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 550 HE is available in 1000L IBC's and 200/20 litre drums.

### Storage

Fosroc Auracast 550 HE 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 550 HE 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 550 HE 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 basis. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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