

Fosroc® Auracast 300

constructive solutions

Advanced high early age strength, low viscosity superplasticiser / high performance water reducer. Displays excellent dispersion and high range water reduction capabilities, developed specifically for the semi dry precast concrete industry.

Description

Fosroc Auracast 300 is a unique combination of the latest generation of polycarboxylate polymers which act synergistically to outperform conventional super-plasticisers. Fosroc Auracast 300 has been specifically developed for the precast concrete industry coupling superior high range water reducing capabilities and excellent dispersion levels with robust performance. Fosroc Auracast 300 is ideal for use in semi-dry precast concrete where the desire to maximise the performance of the concrete in the plastic and hardened state is preeminent

Uses


- Ideal for producing “Fosroc’s Gold Standard” semi-dry concrete.
- Water reductions of up to 45 % promote higher early age strength and superior ultimate age strength.
- Superior semi-dry concretes can be produced, providing ease of mould filling.

Advantages

- Fosroc Auracast 300 is used in the production of “Fosroc’s Gold Standard” semi-dry concretes.
- Semi-dry concrete produced using Fosroc Auracast 300 exhibits cohesion whilst displaying an extremely low viscosity. This enables trowelling, floating and finishing to be made more easily and less labour intensively.
- High early age strength development improves productivity whilst negating the requirement for accelerating admixtures at cold temperatures.
- Increased cohesion and strength facilitates earlier lifting of pre-cast elements, and promotes further cement reductions. This enables the producer to increase efficiency and reduce overall energy input.
- Improved rheology of concrete provides a blemish free surface finish which requires less remedial work (dressing).
- Robust performance accommodates different cement source and types
- Chloride free. Ideal for concrete containing embedded steel.
- Low water to cement ratios provide long term durability, low permeability and improve the concrete’s resistance to sulphate attack.
- Superior surface finishes obtained.

Standards compliance

Fosroc Auracast 300 is CE marked. Fosroc Auracast 300 complies with EN 934 – 2 Tables 3.1 & 3.2 as a high range water reducing / superplasticising admixture.

 0086	
Fosroc Limited Drayton Manor Business Park, Coleshill Road, Tamworth, UK. B78 3XN 14 DoP UK9-58 0086-CPR-473151	
Auracast 300	
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

Properties

Nature	Liquid
Colour	Dark Straw
Specific gravity	1.030 – 1.050
pH	4 +/- 1
Chloride content	<0.1%
Na ₂ O equivalent	<0.5%
Freezing point	Sensitive to freezing
Air entrainment	Typically less than 2% additional air is entrained at normal dosage.

Fosroc® Auracast 300

Application

Fosroc Auracast 300 is supplied ready for addition to concrete at the batching plant.

Typical dosage

For each application, the optimum dosage of Fosroc Auracast 300 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 for Fosroc Auracast 300 is 0.2 to 1.0 litres / 100 kg of cementitious content.

For further advice please contact the Fosroc Technical Department.

Dispensing

The correct quantity of Fosroc Auracast 300 should be measured by means of a suitable dispenser at the time of batching the concrete. Fosroc Auracast 300 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.

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.

Packaging

Fosroc Auracast 300 is available in bulk supply or 20 litre drums.

Storage

Fosroc Auracast 300 has a minimum shelf life of 12 months when the product is stored between 2 °C and 50 °C.

If Auracast 300 becomes frozen the material should be fully thawed and mixed until homogeneous before use.

Precautions

Health and safety

For further information consult the product safety data sheet available at www.fosroc.com

Fire

Fosroc Auracast 300 is water based and non-flammable.

Fosroc and Auracast are trademarks of
Fosroc International Limited



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.

Fosroc Limited

Drayton Manor Business Park
Coleshill Road, Tamworth,
Staffordshire B78 3XN. UK

www.fosroc.com

telephone:
+44 0 (1827) 262222

fax:
+44 0 (1827) 262444

email:
enquiryuk@fosroc.com



Certificate number FM 610