

Auracast 308

New generation poly-carboxylic super-plasticizer with excellent performance water reducing and advanced high early age strength, developed specifically for semi-flow precast concrete industry.

Description

Auracast 308 is a unique combination of the latest generation of polycarboxylate polymers which act synergistically to outperform conventional superplasticisers. **Auracast 308** has been specifically developed for pre-stressed spun-pile precast concrete industry coupling superior high range water reducing capabilities and rapid hardening in early state to achieve high early age strength. **Auracast 308** is ideal for use in semi-flow precast concrete where the desire to maximise the performance of the concrete in the plastic and hardened state pre-eminent.

Uses

- Ideal for producing “Fosroc’s Gold Standard” dry and semi-flow concretes.
- Water reductions of up to 35%, promote high early age strength and superior ultimate strength.
- Extremely semi-flow concretes can be produced, providing ease of mould filling.

Advantages

- **Auracast 308** is used in the production of “Fosroc’s Gold Standard” dry and semi-flow concretes.
- Semi-flow concrete produced using **Auracast 308** exhibits cohesion whilst displaying an extremely low viscosity. This enables trowelling, floating and finishing to be made easily and less labour intensively.
- High early age strength development improves productivity whilst negating the requirement for accelerating admixtures at cold temperatures.
- Increase cohesion and strength facilities earlier.
- Increase efficiency and reduce overall energy input.

- Easy lifting of pre-cast elements, and promotes further cement reductions. This enables the producer to improve rheology of concrete provides 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 provides long term durability, low permeability and improves resistance to sulphate attack.
- Superior surface finishes obtained.

Standards compliance

Auracast 308 complies with ASTM C494/C494M as a high range water reducing / Superplasticising admixture.

Properties

Nature	Liquid
Colour	Dark Straw
Specific gravity, 25+/-2°C	1.040 – 1.060
pH, 25+/-2°C	5.5 +/-1.0
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

Application

Auracast 308 is supplied ready for addition to concrete at the batching plant.

Typical dosage

For each application the optimum dosage of **Auracast 308** is best established by trial mixes with the same site materials in use under conditions that will be experienced on site.

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The typical dosage range for **Auracast 308** is 0.3 to 1.5 litres / 100 kg of cementitious content.

For further advice please contact the Fosroc Technical Department.

Dispensing

The correct quantity of **Auracast 308** should be measured by means of a suitable dispenser at the time of batching the concrete. **Auracast 308** 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 Fosroc Technical Department.

Compability

With cements

Auracast 308 is suitable for use with all types of Portland cement and cement replacement materials e.g. GGBS, PFA and microsilica.

With other admixtures

Auracast 308 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, trials and dispensing equipment. Technical data and guidance can be provided for admixtures and products for use with fresh and hardened concrete.

Packaging

Auracast 308 is available in bulk supply or 210 litre drums.

Storage

Auracast 308 has a minimum shelf life of 6 months even the product is stored between 20°C and 35°C.

If **Auracast 308** becomes frozen the material should be fully thawed and mixed until homogeneous before use.

Precaution

Health and safety

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

Fire

Fosroc Auracast 308 is water based and non-flammable.



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Important note

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