

**Advanced low viscosity superplasticiser / high performance water reducer. Displays an excellent range of dispersion and superior range of water reduction capabilities, developed specially for high flow concrete.**

#### Uses

- Ideal for producing Self Compacting Concrete, super workable flowing concrete, pumped concrete and high performance concrete
- Extremely fluid, flowing concretes can be produced at very low water to cement ratios
- Concrete requiring long workability retention
- Facilitate ease of placing and finishing

#### Advantages

- Fosroc Auracast 400 is extremely efficient and will increase the workability of concrete at low dosages
- Fosroc Auracast 400 produces concrete of an extremely high fluidity
- Increased early and ultimate compressive strengths
- Improved adhesion to reinforcing and stressing steel
- Improved resistance to carbonation
- Reduces water permeability
- Increased resistance to aggressive atmospheric conditions
- Increased overall concrete durability
- Chloride free. Ideal for concrete containing embedded steel

#### Standard compliance

Fosroc Auracast 400 complies with BSEN 934 replacing BS 5075.

#### Description

Fosroc Auracast 400 is a unique combination of the latest generation of polycarboxylate polymers which act synergistically to outperform conventional superplasticisers. Fosroc Auracast 400 greatly improves cement dispersion.

Fosroc Auracast 400 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Fosroc Auracast 400 is a particularly strong superplasticiser allowing production of consistent concrete properties around the required dosage.

#### Typical Properties

<b>Appearance</b>	: Light yellow coloured liquid
<b>pH</b>	: 7.0 ± 1.0
<b>Specific gravity</b>	: 1.06 ± 0.02, @ 20°C
<b>Chloride content</b>	: Nil to BS 5075
<b>Solid content</b>	: 35% ± 2%

#### Dosage

The optimum dosage of Fosroc Auracast 400 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use.

The typical dosage range is between 1.5 to 3.5 kg/100 kg of cementitious material.

#### Use at other dosages

Dosages outside the typical range quoted above can be used to meet particular mix requirements. Contact Fosroc for advice in these cases.

#### Effects of overdosing

Overdosage may promote delays in setting time, segregation and excessive bleeding of the concrete mix.

#### Technical support

Fosroc provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

## Auracast 400

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### Instructions for use

#### Compatibility

Fosroc Auracast 400 should not be used in conjunction with any other admixture unless prior approval is obtained from your local Fosroc office.

Fosroc Auracast 400 is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS, SRC and microsilica.

#### Mixing

When used at the mixing plant, Fosroc Auracast 400 should be added in the mixing water. In some instances, e.g. addition to ready mix concrete on site, Fosroc Auracast 400 can be added directly in the truck mixer and mixed at maximum speed for an extra 5 minutes.

#### Dispensing

The correct quantity of Fosroc Auracast 400 should be measured by means of suitable dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results. Contact Fosroc for advice regarding suitable equipment and its installation.

#### Estimating – packaging

Fosroc Auracast 400 is available in 200 litre drums and 1000 litre IBCs. For larger users, storage tanks can be supplied.

### Precautions

#### Storage

Fosroc Auracast 400 has a minimum shelf life of 6 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range then contact Fosroc for advice. The colour of Fosroc Auracast 400 may darken when exposed to sunlight, however, colour change does not influence the performance of the product.

#### Health and safety

Fosroc Auracast 400 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - **do not** induce vomiting.

For further information consult the Material Safety Data Sheet available for this product.

#### Fire

Fosroc Auracast 400 is water based and non-flammable.

#### Cleaning and disposal

Spillages of Fosroc Auracast 400 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

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\* See separate data sheet



#### Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to that any advice, recommendation, specification or 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.

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