

Description

Oscrete SRD is a triple action combination admixture, having the benefits of a new generation polycarboxylated superplasticiser and a shrinkage-reducing component in conjunction with specifically selected synergistic materials designed to enhance the surface aesthetics of the resultant products.

If dosed correctly, Oscrete SRD provides a dual mechanism in all cementitious mixes. Firstly the superplasticiser enables water reductions in excess of 30 %, producing higher early and long term strengths, along with excellent workability and workability retention. The second function is to modify the basic mechanism of shrinkage, without causing any internal expansion of the concrete matrix, by reducing the surface tension of water present in partially filled pores. The third function utilises carefully selected materials to impart excellent surface finish characteristics in wet cast applications.

Oscrete SRD should be used in cementitious applications where shrinkage causes performance related problems.

Application

Oscrete SRD is suitable for use with all types of Portland cement and cement replacements, and is effective in a wide range of concrete applications where shrinkage is encountered.

Benefits

- Higher early and long term strengths
- Outstanding workability
- Good retention of workability
- Water reductions in excess of 30 %
- Improved early stripping
- Reductions of up to 80 % of early shrinkage
- Reduced cracking
- Imparts high resistance to bleeding and segregation



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Standards

Oscrete SRD complies with BS EN 934-2, Tables 3.1 + 3.2 for High Range Water Reducing and Superplasticising Admixtures.

All Christeyns products are produced in accordance with the ISO 9001:2000 Quality Management Standard and the ISO 14001 Environmental Management Standard.

Addition Rates

Dosage rates will be dependent on the mix design, process, types of aggregates and the desired effect, but typically will be in the range of:

1.0- 3.0 litres per 100 kgs of cement
(1.0-3.0 % by weight of cement)

Oscrete SRD should be added neat, with or directly after the mixing water.

Typical Properties

Nature

Superplasticiser / shrinkage reducing admixture.

Appearance

Straw coloured hazy liquid

Relative Density

1.035 at 20°C.

Air Entrainment

Typically less than 2 % additional air entrained.

Water Soluble Chloride to EN 480-10

Less than 0.005 %

Alkali content to EN 480-12

0.1 % as Na₂O equivalent

Corrosion Behaviour

No performance determined

Storage

Protect from the extremes of temperature.

Oscrete SRD has a minimum shelf life of 12 months from the date of delivery, provided storage temperatures are within the range 0°C to 50°C.

Handling

Oscrete SRD is a non-hazardous product but in line with general handling precautions to avoid contact with skin or eyes, protective gloves and goggles should be worn.

Refer to the Material Safety Data Sheet for Oscrete SRD for full details.

Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

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