

superplasticiser

Description

Oscrete 893 Superplasticiser is a liquid admixture based upon high molecular weight polymers.

Oscrete 893 Superplasticiser dramatically increases the workability of concrete mixes by its powerful deflocculating and dispersing effect upon the cement particles. This increase in workability can be utilised to produce high workability concrete or enable significant reductions in the free water content.

Benefits

- The powerful plasticising properties dramatically increase workability. A concrete with a slump of 50 to 100mm can be turned into self-compacting, flowing concrete that requires little or no vibration, by the simple addition of Oscrete 893.
- Highly beneficial when incorporated into a retarded floor screed mix. Reduced drying times and high early strengths can be achieved at normal workabilities and cement contents, due to substantial reductions in free water content (up to 45% water reduction).
- Addition of Oscrete 893 extends the period of time that floor screeds can be successfully placed and compacted thus leading to significant reductions in retarder dosage levels.
- Increased compressive, tensile and flexural strength.
- Gives improved compaction in low workability mixes.
- Workability can be maintained with water reductions of 20 - 30%, thus giving reduced shrinkage, high density and reduced permeability.
- The high early and long term strengths which can be achieved from the use of Oscrete 893 can be utilised to significantly reduce mould turn round time in precast works.

Application

Oscrete 893 Superplasticiser is suitable for all cement types and concrete mixes.

Standards

Oscrete 893 Superplasticiser complies with the requirements of BS EN 934-2 : Table 3.1 and Table 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

Usage rates vary widely depending upon the concrete mix and the desired effect. Typically, a range of 0.5 - 1.2% by weight of cement is employed for concrete mixes.

For retarded floor screeds dosages range from 1.8 - 2.5% by weight of cement depending on the high early strength gain required.

Oscrete 893 Superplasticiser should be added to the mix during the cycle at the same time as the water or the aggregates. **Never add Oscrete 893 Superplasticiser to the dry cement.**

Typical Properties**Nature**

Sulphonated naphthalene formaldehyde condensate.

Appearance

Dark brown liquid.

Relative Density

1.21 at 20°C.

Air Entrainment

Less than 2% additional air entrained.

Water Soluble Chloride to EN 480-10

Less than 0.005%.

Alkali Content to EN 480-12

5.4% as Na₂O equivalent

Corrosion Behaviour

No performance determined

Compatibility

Compatible with all types of Portland Cement, ggbs and pfa.

Storage

Oscrete 893 Superplasticiser has a minimum shelf life of 1 year under normal conditions of storage. Protect from extremes of temperature. Oscrete 893 Superplasticiser should be stored at temperatures greater than 13°C.

Avoid freezing. At 0°C it can be reconstituted if stirred after thawing; however, some crystallisation may take place.

Handling

Oscrete 893 Superplasticiser is a non-hazardous product but, in line with general chemical 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 893 Superplasticiser 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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