

SIGMA 120

for

masonry block

SIGMA 120 Plasticiser is an economical normal range water reducer based upon modified lignosulphonate. It is designed to improve the workability of concrete with minimal effects on other properties

Application

The addition of Sigma 120 to the concrete mix will significantly improve its flow properties if the water content is maintained, with minimal effect on the strength levels. If the water content is reduced the flow can be maintained and a significant increase in strength can be achieved.

Benefits

Increased workability will assist the placing of concrete and mould filling. A reduced water content of up to 15% offers numerous improvements including:-

- Increased early and final strengths
- Reduced shrinkage
- Reduced permeability
- Higher density
- Reduced segregation and bleeding
- Addition Rates

Standards

Sigma 120 complies with the requirements of BS EN 934-2:2001 Table 2 for Water Reducing / Plasticising 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 may vary depending on the mix, aggregate type and the desired properties, and should be determined by site trials. As a guide, a typical dosage rate of 0.3% to 0.5% on weight of cementitious content would give a water reduction of up to 10%.

Sigma 120 should be accurately dosed and added to the mix with or just after the water. It must not be added



OSCRETE
construction products

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onto dry cement.

Typical Properties

Nature

Lignosulphonate

Appearance

Dark brown liquid

Relative Density

1.11 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

1.2% as Na₂O equivalent

Corrosion Behaviour

No performance determined

Compatibility

Compatible with all types of Portland cement, ggbs and pfa

Storage

Protect from extremes of temperature.

Sigma 120 has a minimum shelf life of 12 months provided storage temperature is within the range 0°C - 30°C.

Handling

SIGMA 120 is a non-hazardous product but in line with general handling precautions to avoid contact with skin or eyes protective goggles should be worn.

Refer to the Material Safety Data Sheet for SIGMA 120 for full details.

Packaging

200 litre drums, 1000 litre containers 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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