

# SIGMA 120

## Masonry Block Water Reducer

### Description

**Sigma 120** 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. **Sigma 120** if used correctly can achieve water reductions of up to 16%.

### Applications

**Sigma 120** can be used to reduce the water content in dry/semi-dry mixes which in turn will increase the density of the finished product leading to higher strengths.

### Benefits in Concrete

- Increased early and final strength
- Reduced shrinkage
- Reduced permeability
- Increased density
- Reduced segregation and bleeding

### Properties

Nature	Liquid
Colour	Dark Brown
Specific Gravity	1.12 g/cm <sup>3</sup>
pH	6.5
Chloride Content	<0.10%
Na <sub>2</sub> O equivalent	<1.00%

### Addition Rates

Dosage rates vary dependant on mix design, process, aggregate type and the desired effect but typically:

200mls - 600mls per 100 kg cement  
(0.20% - 0.60% by weight of cement)

### Standards

**Sigma 120** complies with the requirements of BS EN 934-2 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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construction products



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### Compatibility

**Sigma 120** is compatible with all Portland cement systems, including GGBS, Pfa and limestone blends.

**Sigma 120** is compatible with all Oscrete admixtures, but should be added to the mix separately.

### Storage

**Sigma 120** should be protected from extreme temperatures and if stored unopened within the range 10°C - 30°C will have a minimum shelf life of 12 months.

### Handling

**Sigma 120** is a non hazardous product but in line with normal handling procedures, personal protective equipment should be worn.

Refer to the Material Safety Data Sheet for full details.

### Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

### Notes

**Sigma 120** should be added with the water or at the end of the mixing process and not directly onto the cement. A mixing time of at least 30 seconds is recommended after the addition of the admixture.

If frozen **Sigma 120** may be used after thawing slowly at room temperature followed by intensive remixing.

Please consult the OSCRETE Technical Department for advice on admixture selection.

#### **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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