

# OPTOMIX 450

for

## readymix

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### Description

**Optomix 450** is a new generation Superplasticiser based on a modified synthetic carboxylated polymer along with carefully selected synergistic materials, formulated to provide optimum performance in all classes of concrete.

**Optomix 450** is a superplasticiser/high range water reducer that has been specifically developed for use by the Ready Mixed concrete industry. Its molecular structure has been designed to promote exceptional properties.

**Optomix 450** can be used at a broad range of dosages i.e. at low levels in low strength concrete and higher levels for superior strength classes.

**Optomix 450** can be utilised to impart exceptional fluidity to concrete whilst allowing water/cement ratios to be maintained.

**Optomix 450**, if correctly dosed will allow water reductions of up to 40%, resulting in very high early age concrete along with increased long term strength.

### Application

**Optomix 450** is suitable for use with all types of cements and offers a wide range of benefits particularly in the production of Ready Mixed concrete, covering high workability concrete, highly reinforced concrete and pumped concrete.



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construction products

## Benefits in Ready Mixed Concrete

- Extreme water reduction results in higher strengths at all ages.
- Improved slump retention. Rheology maintained for a longer period of time, typically 90 minutes.
- Outstanding flow properties allow the production of high workability/flowable concrete.
- Increased durability is produced due to a more homogenous surface layer.
- High quality concrete can consistently be produced.
- Segregation and bleeding problems are reduced.

Designed with cost in mind, **Optomix 450** brings the benefits of new technology to the Ready Mixed concrete industry at an affordable price.

## Standards

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 dependant on mix design, process, types of aggregates and the desired effect but typically:

0.2 - 2.0 litres per 100 kg cement  
(0.2 to 2.0% by weight of cement)

**Optomix 450** should be added with or directly after the mixing water.

## Typical Properties

### Nature

Superplasticiser based on a modified carboxylated polymer.

### Appearance

Yellow to Amber liquid

### Relative Density

1.14 gcm<sup>-3</sup> at 20°C

### Corrosion Behaviour

No performance determined

### Air Entrainment

Typically less than 2% additional air entrained

### Storage

Protect from the extremes of temperature. Freezing will affect the physical condition and may damage the material. A recommended storage life for the material is 9 months.

### Handling

**Optomix 450** 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 **Optomix 450** 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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