ALPHAFLOW 410

for structural pre-cast

Alphaflow 410 is a new generation superplasticiser based on a modified synthetic carboxylated polymer.

Description

Alphaflow 410 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.

Alphaflow 410 is a superplasticiser/high range water reducer that has been specifically developed for use in the concrete industry. Its molecular structure has been designed to promote exceptional properties.

Alphaflow 410 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.

Alphaflow 410 can be utilised to impart exceptional fluidity to concrete whilst allowing water/cement ratios to be maintained.

Alphaflow 410, if correctly dosed will allow water reductions of up to 30%, resulting in very high early age concrete along with increased long term strength.

Application

Alphaflow 410 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.

FM/09569

the Sign of Quality

EMS 73529

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construction products

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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 60 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, **Alphaflow 410** brings the benefits of new technology to the Precast 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 - 1.2 litres per 100 kg cement
(0.2 to 1.2% by weight of cement)

Alphaflow 410 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

1.07 gcm^{-3} at 20ºC

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

Alphaflow 410 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 **Alphaflow 410** for full details.

Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

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