

# BETACAST 300

for pipes sector

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## Description

Betacast 300 is a specifically formulated product designed to meet the requirements of semi-dry precast applications.

Betacast 300 is a triple action admixture providing outstanding acceleration benefits in addition to water reduction and surface finish improvements.

## Application

Based upon the latest polycarboxylate technology to give maximum water reductions, Betacast 300 also improves the dispersion of cement particles within the mix, thereby optimising the hydration process and increasing strengths at all ages. This is further enhanced via the integrated acceleration system to give maximised early strengths and faster demoulding.

In addition to this, the surface synergistic properties of Betacast 300 will benefit processing by improving surface finish and increasing compaction whilst maintaining the consistency of the mix, giving reduced permeability of the finished product and subsequently leading to a reduction in the occurrence of efflorescence.

The balanced properties of Betacast 300 will improve the dispersal of pigments thereby enhancing colour density.

It is used to improve the compaction and handling of all dry/semi-dry concrete mix processes. It is especially beneficial in the production of semi-dry structural precast units and other concrete products where an increased early strength and improved surface finish are required. The improved mix properties also result in reduced machine stress and parts wear.



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## Benefits

Betacast 300 can be used in all automated semi-dry production processes to give the following benefits:

- Improved Compaction
- Improved processing
- Better surface finish
- Increase in strength at all ages, especially early strengths.
- Optimised water/cement ratio
- Reduced efflorescence

## 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

Usage rates will depend upon the mix design, process and types of materials used but typically, will be in the range of 250 mls to 750 mls per 100 kgs cementitious content. A typical addition rate would be:

500 mls per 100 kgs of cementitious content (0.5% by weight of cement).

When pfa or ggbs is used addition rates may have to be increased. It is recommended that trials be carried out to determine the optimum addition rate.

Betacast 300 should be added during the mixing process just after, or at the same time as the water.

## Typical Properties

### Nature

A combination product based on polycarboxylates, carefully selected surfactants and non-chloride accelerators.

### Appearance

Amber liquid

### Relative Density

1.14 gcm<sup>-3</sup> at 20°C

### Chloride Content

Nil (to BS5075)

### Stability

Avoid freezing

### Compatibility

Compatible with all types of Portland Cement

### Storage

Protect from extremes of temperature. Betacast 300 has a minimum shelf life of 1 year under normal conditions of storage.

### Handling

Betacast 300 is a non-hazardous material 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 Betacast 300 for full details

### Packaging

200 litre drums, 1000 litre IBC's 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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