

# BETACAST 360

## High Range Superplasticiser / AEA

### Description

**Betacast 360** is a new generation superplasticiser based on a modified synthetic carboxylated polymer blended with carefully selected surfactants. **Betacast 360** has been designed to entrain controlled and stable quantities of air in dry/semi dry concrete mixes whilst providing all the benefits of a high range superplasticiser. **Betacast 360** if correctly dosed will allow high water reductions and increased early age strength.

### Applications

**Betacast 360** is particularly suitable for precast and structural concrete where low workability, slick finish, high early age strength and increased durability are essential.

### Benefits in Concrete

- Increased resistance to freeze thaw cycles
- Water reductions of up to 30%
- Improved surface finish
- Reduced segregation and bleeding
- Increases durability of all concrete mixes
- Low shrinkage
- Better compaction

### Properties

Nature	Liquid
Colour	Amber
Specific Gravity	1.06 g/cm <sup>3</sup>
pH	6.0
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:

300mls - 1000mls per 100 kg cement  
(0.3% - 1.00% by weight of cement)

The correct dosage for the material package used should be determined by laboratory trials, please contact the OSCRETE Technical department for further advice.

### Standards

**Betacast 360** is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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### Compatibility

**Betacast 360** is compatible with all types of EN 197 cement systems.

**Betacast 360** should not be pre-mixed with other admixtures and should be batched separately.

### Storage

**Betacast 360** should be stored undercover and protected from extreme temperatures, if stored unopened within the range 5°C and 30°C the product will have a minimum shelf life of 12 months.

### Handling

Please refer to the **Betacast 360** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

### Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

### Notes

**Betacast 360** 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 **Betacast 360** may be used after thawing slowly at room temperature followed by intensive remixing.

**Betacast 360** is designed for use in dry/semi dry concrete where high performance and extrusion are the main performance criteria. If used in wet concrete high air entrainment values will be observed.

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

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