

BETACAST 360

High Range Superplasticiser/AEA

PRODUCT 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

- Increased resistance to freeze thaw.
- High water reductions.
- Improved surface finish.
- Reduced segregation and bleeding.
- Improved durability.
- Low shrinkage.
- Good compaction.
- Reduced equipment wear.

PROPERTIES

Nature:	Liquid
Appearance:	Amber
Specific Gravity: (20°C)	1.06 g/cm ³
pH:	6.0
Chloride Content:	< 0.10
Alkali Content (Na ₂ O):	< 1.00

ADDITION RATES

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

300mls—1000mls per 100kg cement
(0.3% - 1.0% 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 premixed with other admixtures and should be batched separately.

STORAGE

Betacast 360 should be protected from extreme temperature, frost and direct sunlight, the product has 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 litres drums, 1000 litre IBC's 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 mixing.

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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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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PDS 7653 Rev 04 01/01/2020



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