

BETACAST NCA

Chloride Free Accelerator

Description

Betacast NCA is a specially formulated non-chloride, non-corrosive liquid hardening accelerator for concrete and mortar. **Betacast NCA** accelerates the chemical reaction between Portland cement and water. This reaction speeds up the formation of calcium silicate hydrate (C-S-H) gel. The formation of this gel ultimately shortens the setting time of concrete which allows the development of higher early strengths.

Applications

Betacast NCA is particularly beneficial in cold temperatures when the hydration process has been slowed down, the use of **Betacast NCA** in flooring enables the floor finisher to regulate the setting time of his concrete therefore allowing him time to finish the floor. **Betacast NCA** can also be used to accelerate the setting time of concrete containing replacements giving them a neutral set characteristic.

Benefits in Concrete

- Accelerated strength
- Improved setting times
- Non-chloride
- Non-corrosive
- Increased production
- Cold weather working
- Faster demoulding

Properties

| | |
|------------------------------|------------------------|
| Nature | Liquid |
| Colour | Light Amber |
| Specific Gravity | 1.23 g/cm ³ |
| pH | 9.5 |
| Chloride Content | <0.10% |
| Na ₂ O equivalent | <1.00% |

Addition Rates

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

1000 mls - 5000 mls per 100 kg cement
(1.00% - 5.00% 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 NCA conforms to the requirements of BSEN 934-2 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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Compatibility

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

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

Storage

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

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

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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