

BETACAST NCA

Chloride Free Accelerator

PRODUCT 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

- Accelerated strength.
- Improved setting times.
- Non-chloride.
- Non-corrosive.
- Increased production.
- Cold weather working.
- Faster de-moulding.

PROPERTIES

Nature:	Liquid
Appearance:	Clear/Opaque
Specific Gravity: (20°C)	1.17 g/cm ³
pH:	9.5
Chloride Content:	< 0.10
Alkali Content (Na ₂ O):	< 5.00

ADDITION RATES

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

1000mls—5000mls per 100kg cement

(1.0% - 5.0% 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 NCA conforms to the requirements of BS EN 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 premixed with other admixtures and should be batched separately.

STORAGE

Betacast NCA 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 NCA** material safety data sheet but in line with normal handling procedures, personal protective equipment should be worn.

PACKAGING

1000 litre IBC's 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 mixing.

Please consult the OSCRETE technical department for advice on admixture selection.

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PDS 7214 Rev 07 02/01/2024

Disclaimer

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