



OPUS CONSTRUCTION PRODUCT DATA

CONCRETE ACCELERATOR ACF

Description

Opus Concrete Accelerator ACF is a specially formulated non-chloride, non-corrosive liquid hardening accelerator for Concrete and Mortar. Opus Concrete Accelerator ACF 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 high early strengths.

Applications

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

Benefits

- Accelerated Strength
- Improved setting time
- Non-chloride
- Non-corrosive
- Increased production
- Cold weather working
- Faster de-moulding

Properties

Appearance:	Light Amber Liquid
Specific Gravity:	1.23g/cm ³
Ph:	8.0
Chloride Content:	<0.10%>
Flash Point:	165°C (Pensky Martin Closed Cap)
Na ₂ O Equivalent:	<1.0%>



Addition Rates

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

1000mls – 5000mls per 100kg cement
(1.0% - 5.0% by weight of cement)

Addition Notes

Opus Concrete Accelerator ACF 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 Product becomes frozen it can be used after thawing at room temperature followed by intensive re-mixing.

Standards

Opus Concrete Accelerator ACF conforms to the requirements of BSEN934-2 and is produced in accordance with ISO 9001 Quality Management Standard.

Compatibilty

Opus Concrete Accelerator ACF is compatible with all Portland cement systems including GGBS, Pfa and limestone blends. Opus Concrete Accelerator XLCF is also compatible with other Opus Admixtures but should be added to the mix separately.

Storage

Opus Concrete Accelerator ACF should be protected from extreme temperatures and if stored unopened within the range of 5°C - 30°C will have a minimum shelf of 12 months.

Handling

Opus Concrete Accelerator ACF is classified as an irritant, eye protection and impervious gloves should be worn, in line with normal handling procedures, personal protection equipment should always be worn. Refer to the MSDS for more details.

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