



CWC®NCA-2002

Non-chloride Concrete accelerating admixture

Description

NCA-2002 is a non-chloride concrete set accelerator is a ready-to-use, liquid admixture. It accelerates the initial setting time one to three times faster than normal for mortar and concrete. NCA-2002 improves workability and strength while it hastens the hydration of cement. It makes the mix easier to place and speeds construction by shortening the initial set and curing time. Labor and time are saved, because forms and other protection can be removed earlier, and finishing can be initiated.

Indicative characteristics

| | |
|------------------|----------------------------------|
| Form | : Light Yellow Liquid |
| Specific Gravity | : 1.20 ± 0.02 |
| Air entrainment | : Less than 1.0% |
| Freezing Point | : -16°C |
| Chloride Content | : Nil, as per BS - 5075 (Part-I) |

* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered.

Standard Compliance

NCA-2002 complies with IS9103:1999 and with ASTM C494 Type 'C' admixture depending on dosage used.

Advantages:

1. Accelerates initial set time one to three times.
2. faster than normal for concrete and mortar.
3. Aids in strength development.
4. Speeds up hydration of cement.
5. Compatibility with wide range of cements, fly ashes and slags
6. Non-chloride formula.
7. Increases workability of concrete or mortar.
 - a. speeds construction due to reduced setting
 - b. and curing time.
8. Allows earlier removal of concrete forms or other protection.
9. Permits earlier finishing.

Domains of application

Production of concrete mixes which require early setting and high strength development.

1. Precast concrete
2. Fast-track concrete.
3. In situ concrete requiring fast stripping time
4. Cold Weather concreting
5. High to very high-performance concrete

DISPENSING

The correct quantity of NCA-2002 should be measured by means of a recommended dispenser. The company's technical department should be consulted regarding suitable equipment and its installation. NCA-2002 should be added direct into the mixer. Best results are

Concrete Works Construction Chemicals Private Limited (CIN: U74999PN2021PTC199740)

Corp. Office: Office No. 70, Mahavir Center, Fourth Floor, Sector 17, Vashi, Navi Mumbai 400703.

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obtained when added at the same time as the mixing water.

Dosage

The recommended dosage range for standard concrete and mortar mixes with all grades of Portland cement is 2.0 to 3.0 litres per 100 kg cement.

Over dosage

An overdose of double the recommended amount of **NCA-2002** will result in a slight increase in initial acceleration but will not materially alter the ultimate strength or characteristics of the cured concrete or mortar.

Compatibility

Compatibility with cements: May be used with all types of Portland cements. Not suitable for use with high alumina cement

Acceleration: The addition of **NCA-2002** to Portland cement concrete mixes accelerates both the setting and rate of strength gain. The strength improvements are most significant during the first 18 hours.

Long term effects: Accelerated corrosion testing of steel in concrete has shown that **NCA-2002** does not affect the protection of steel afforded by cement against corrosion even at four times the normal dose level.

Packaging

230 Kgs Barrel & bulk in 10 KL tanker

Shelf Life: If stored in unopened containers at normal ambient temperatures, a shelf-life of approximately 12 months.

Freezing point: Approximately -2°C.

Precautions

Not to be stored at high temperatures for long periods. Should be protected from frost. It is Non-toxic and formulated from chemicals which present no fire or health hazards. Spillages should be washed down immediately with water.

Safety

Before use, refer to the Material Safety Data Sheet.

The MSDS is available on www.cwcchemicals.com

Additional information

The CWC range of associated products includes high strength cementitious, epoxy grout, polyester resin-based mortar, Resin anchoring systems. Also available is a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.

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