

# Non-chloride concrete setting accelerator

## RAPIDSET NCA

### TECHNICAL DATA

#### 1.0 DESCRIPTION

RAPIDSET NCA is a ready-to-use concrete admixture for accelerating the early setting of concrete, especially suitable for cold weather.

RAPIDSET NCA does not contain added chloride and conforms to the most stringent chloride ion limits imposed by concrete industry standards. It easily exceeds the requirements of AS1478 for Type Ac admixtures. It therefore does not promote the corrosion of steel reinforcing.

RAPIDSET NCA does not contain triethanolamine or other alkanolamines.

#### 2.0 PHYSICAL PROPERTIES:

2.1	Appearance	Clear, colourless liquid.
2.2	Viscosity	similar to water – easily poured liquid.
2.3	Specific Gravity	Approx. 1.5
2.4	pH	4 – 8
2.5	Shelf Life	2 years in original unopened containers.
2.6	Chloride ion content	Less than 30 parts per million.

#### 3.0 USES

- 3.1 Concreting in cold weather where early setting times are required to enable final finishing.
- 3.2 Suitable for all types of Portland cement.
- 3.3 Especially recommended in situations where the concrete is in contact with steel (e.g. rebar, steel forms, steel pipes, etc.). RAPIDSET NCA does not promote corrosion of steel.
- 3.4 Precast concrete, both pretensioned and post-tensioned.

#### 4.0 INSTRUCTIONS FOR USE

- 4.1 **DOSAGE:** RAPIDSET NCA can be used over a wide dosage range depending on the desired effect. Typical usage is around 0.8-8% of the liquid as supplied on the weight of cementitious material, depending on the degree of set acceleration required, the prevailing temperature of the concrete and the type of cementitious material used. As a rough guide, 800 mL (1.2 kg) of RAPIDSET NCA per 100 kg of Ordinary Portland Cement will compensate for a 5°C drop in temperature. The wide range of usage rate allows the concrete producer to accurately control the setting rate of his concrete mix and tests should be conducted to determine the best usage rate for the particular mix and prevailing conditions.
- 4.2 **MIXING:** RAPIDSET NCA should be added directly to some of the mixing water and mixed well. Do not pre-mix with any other admixtures or additives. RAPIDSET NCA may be used in conjunction with PC-707 High Range Water Reducer. If PC-707 is used, it should be mixed with the first portion of mix water and incorporated completely before RAPIDSET NCA is added. RAPIDSET NCA should be the last additive to be incorporated. Mix well after addition to ensure even distribution throughout the mix. NEVER ADD RAPIDSET NCA UNDILUTED DIRECTLY ONTO THE DRY CEMENT.

# RAPID SET NCA

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## TECHNICAL DATA Continued

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### 5.0 PACKAGING

20 L and 200 L containers.



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