



ACCELGUARD[®] NCA

NON-CHLORIDE, ACCELERATING & WATER REDUCING ADMIXTURE

EUCLID CHEMICAL

DESCRIPTION

ACCELGUARD NCA is an accelerating, water reducing admixture for concrete that does not contain calcium chloride or added chloride ions. It improves properties of plastic and hardened concrete, provides a significant improvement in early stiffening and setting characteristics, improved workability and decreased bleeding and segregation. This admixture is compatible with air-entraining admixtures, HRWR admixtures (super plasticizers), and conventional water reducing admixtures. ACCELGUARD NCA works well at all temperatures but has shown to be most effective in the 35°F to 50°F (2°C to 10°C).

PRIMARY APPLICATIONS

- Cold weather concreting
- Structural and plain concrete
- Precast and post tensioned concrete

FEATURES/BENEFITS

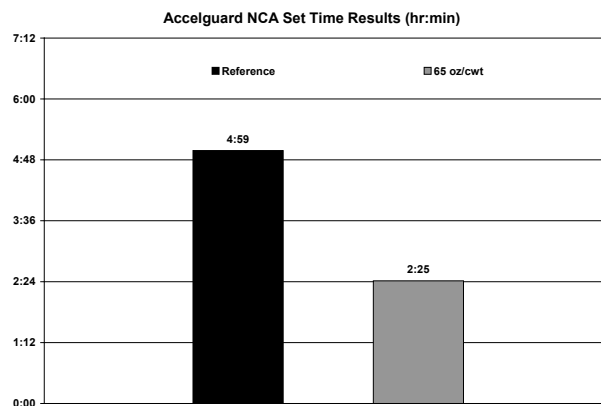
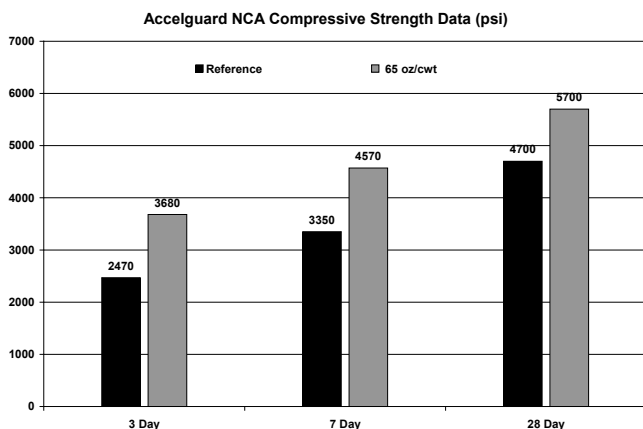
- Reduces initial set 1 to 4 hours depending on concrete temperatures
- Improves workability and provides denser concrete
- Minimizes bleeding and segregation
- Improves compressive strength development at early ages
- Decreases overtime allowing earlier finishing
- Increases protection for reinforcement in concrete

TECHNICAL INFORMATION

Performance Data

The following test results were achieved using typical ASTM C 494 mix design requirements, 517 lb/yd³ (307 kg/m³) cement content and similar (± 0.5)% air content.

These results were obtained under laboratory conditions with materials and mix designs meeting the specifications of ASTM C 494. Changes in materials and mix designs can affect the dosage response of ACCELGUARD NCA.



SHELF LIFE

2 years in original, unopened container.

PACKAGING

ACCELGUARD NCA is packaged in bulk, 275 gal (1041 L) totes, 55 gal (208 L) drums and 5 gal (18.9 L) pails.

SPECIFICATIONS/COMPLIANCES

- Fully complies with ASTM C 494, Type C and E admixture specifications.
- Fully complies with AASHTO M 194.
- ACI 201, Guide for Durable Concrete and ACI 302 Guide for Concrete Floor and Slab Construction prohibit the use of chlorides in many types of concrete. ACCELGUARD NCA may be used in these types of concrete such as, floors over prestressed concrete or galvanized decking, floors containing two kinds of embedded metal, reinforced concrete in moist environments and/or exposed to chloride deicing salts.

DIRECTIONS FOR USE

The typical dosage range for ACCELGUARD NCA is 12 - 75 oz per 100 lbs (780 - 4890 mL/100kg) of cementitious material. Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials being used.

ACCELGUARD NCA should be added to the initial batch water of the concrete mixture. Do not dispense onto dry cement. For ambient temperatures below 50°F (10°C) follow ACI 306 Cold Weather Requirements.

PRECAUTIONS/LIMITATIONS

- ACCELGUARD NCA will freeze at temperatures of approximately -15°F (-26°C). Freezing and thawing will not harm the material if thoroughly agitated.
- Do not use air for agitation.
- Keep concrete from freezing until a minimum of 1000 psi (7 MPa) is achieved.
- In all cases, consult the Safety Data Sheet before use.

Rev. 11.14

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