



# ACCELGUARD® G3

NON-CHLORIDE, ACCELERATING & WATER REDUCING ADMIXTURE

EUCLID CHEMICAL

## DESCRIPTION

**ACCELGUARD G3** a ready to use accelerating, water reducing liquid admixture for concrete that does not contain calcium chloride or added chloride ions. It increases early strength at low temperatures and is especially effective in extremely cold temperatures as low as 20°F (-7°C) using a cold weather admixture system. ACCELGUARD G3 also will increase workability of the concrete and reduces bleeding and segregation. This product is compatible with most other admixtures commonly used in conventional concrete although testing is recommended when using in conjunction with admixtures that contain naphthalene. ACCELGUARD G3 is effective in concrete of any temperature, it is particularly effective in freeze-resistant concrete admixture systems.

## PRIMARY APPLICATIONS

- Cold weather concrete
- Structural and plain concrete
- Precast and post tensioned concrete
- Architectural concrete
- Mining and underground concrete
- Shotcrete Applications

## FEATURES/BENEFITS

- Reduces initial and final set
- Cuts construction costs
- Improves workability
- Improves early age compressive strength

## TECHNICAL INFORMATION

### Technical Information

#### Mild Weather

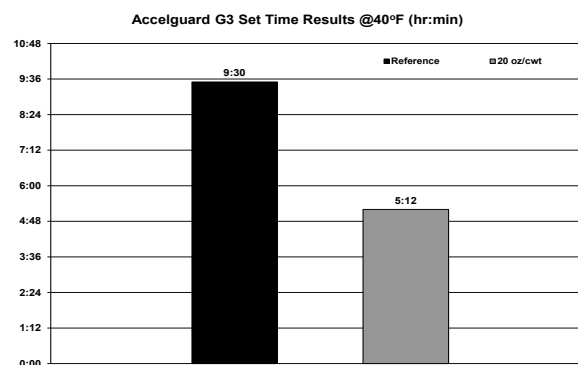
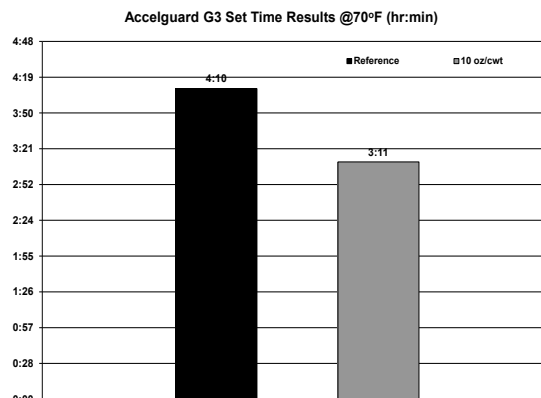
##### Mix Data

Type I cement, lb/yd <sup>3</sup> (kg/m <sup>3</sup> )	517 (306)
Air content	7% (± 1)
Ambient temperature	70° F (21.1°C)
Concrete temperature	70° F (21.1°C)
Accelguard G3 dose	10 oz/cwt (652 mL/100 kg)

#### Cold Weather

##### Mix data

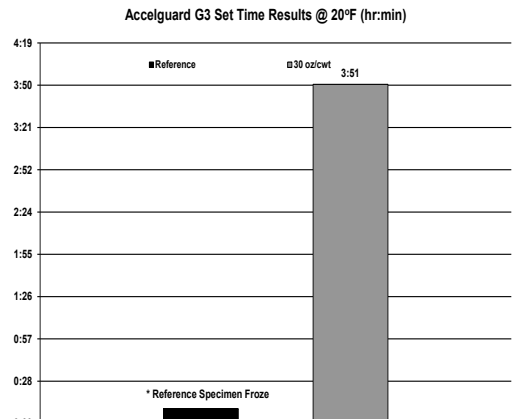
Type I cement, lb/yd <sup>3</sup> (kg/m <sup>3</sup> )	517 (306)
Air content	7% (± 1)
Ambient temperature	40° F (4.4°C)
Concrete temperature	60° F (15.6°C)
Accelguard G3 dose	20 oz/cwt (1304 mL/100 kg)



## Sub-Freezing Weather

### Mix data

Type I cement, lb/yd <sup>3</sup> (kg/m <sup>3</sup> )	517 (306)
Air content	7% (± 1)
Ambient temperature	20° F (-6.7°C)
Concrete temperature	60° F (15.6°C)
Accelguard G3 dose	30 oz/cwt (1956 mL/100 kg)



## PACKAGING

ACCELGUARD G3 is packaged in bulk, 275 gal (1041 L) totes, 55 gal (208 L) drums and 5 gal (18.9 L) pails.

## SHELF LIFE

2 years in original, unopened package.

## SPECIFICATIONS/COMPLIANCES

- Fully complies with ASTM C 494, Type C and E admixture specifications.
- AASHTO M 194.
- Tested using the specifications from ASTM C 1622 for cold weather admixture systems.
- 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 G3 may be used in these types of concrete such as: floors over pre-stressed concrete, reinforced concrete in moist environments and/or exposed to chloride deicing salts.

## DIRECTIONS FOR USE

ACCELGUARD G3 is typically used at dosages of 10 to 90 oz per 100 lbs (650 to 5870 mL per 100 kg) of cementitious material. Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials being used.

ACCELGUARD G3 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. If conditions exist that require freeze resistant concrete systems using Euclid Chemical admixtures, contact your local Euclid Chemical sales representative for proper recommendations.

## PRECAUTIONS/LIMITATIONS

- Protect concrete from freezing until a minimum of 1000 psi (7 MPa) is achieved.
- ACCELGUARD G3 will freeze at temperatures of approximately -15°F (-26°C). Freezing and thawing will not harm the material if thoroughly agitated.
- In all cases, consult the Safety Data Sheet before use.

Rev. 03.16

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