

ACCELERATORS

Master Format #: 03 30 00 03 40 00

ACCELGUARD® G3

NON-CHLORIDE BASED ACCELERATING & WATER REDUCING ADMIXTURE



EUCLID CHEMICAL

PRODUCT INFORMATION

PACKAGING

Available 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 container

SPECIFICATION/COMPLIANCES

ASTM C494, Type C and E

AASHTO M194

ASTM C1622 for Cold Weather Admixture Systems

ACI 201, Guide for Durable Concrete
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.

DESCRIPTION

ACCELGUARD G3 is a ready to use, accelerating and water reducing liquid admixture for use in ready mix, precast and post tensioned concrete. It increases early strength at low temperatures and is effective in extremely cold temperatures as low as 20°F (-7°C) using a cold weather admixture system. ACCELGUARD G3 will also increase workability and reduce bleeding and segregation. ACCELGUARD G3 is compatible with most other admixtures. ACCELGUARD G3 is effective in concrete of any temperature, particularly in freeze-resistant concrete admixture systems and contains no added chlorides or chemicals known to promote the corrosion of steel.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

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

PRIMARY APPLICATIONS

- Cold weather concrete, including freeze-resistant concrete
- Structural and plain concrete
- Precast and post tensioned concrete
- Architectural concrete
- Mining and underground concrete
- Shotcrete Applications

PRECAUTIONS/LIMITATIONS

- Protect concrete from freezing until a minimum of 500 psi (3.5 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.

TECHNICAL INFORMATION

PERFORMANCE DATA

Mild Weather

Mix Data

Type I cement	517 lb/yd ³ (306 kg/m ³)
Air content	7% (± 1)
Ambient temperature	70° F (21.1°C)
Concrete temperature	70° F (21.1°C)
Accelguard G3 dose	10 oz/100lbs (650 mL/100 kg)

Cold Weather

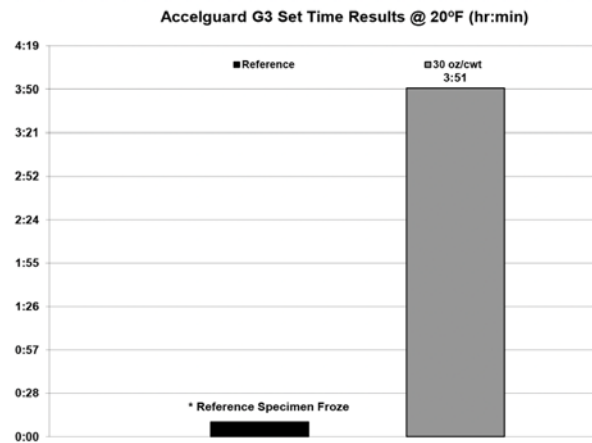
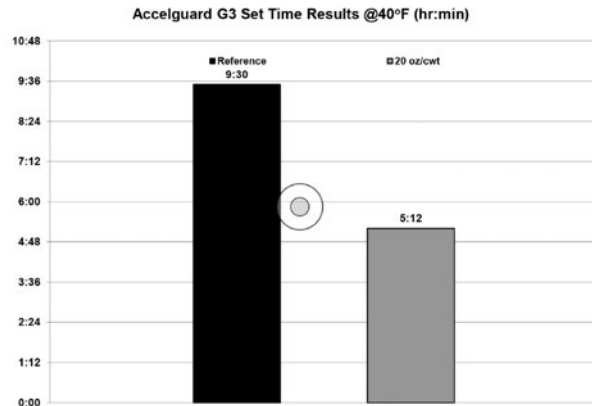
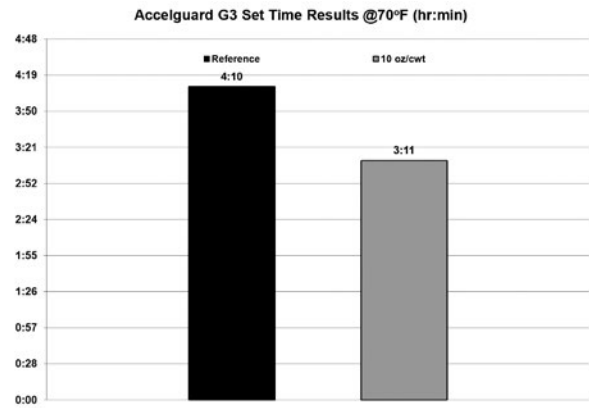
Mix data

Type I cement	517 lb/yd ³ (306 kg/m ³)
Air content	7% (± 1)
Ambient temperature	40° F (4.4°C)
Concrete temperature	60° F (15.6°C)
Accelguard G3 dose	20 oz/100lbs (1300 mL/100 kg)

Sub-Freezing Weather

Mix data

Type I cement	517 lb/yd ³ (306 kg/m ³)
Air content	7% (± 1)
Ambient temperature	20° F (-6.7°C)
Concrete temperature	60° F (15.6°C)
Accelguard G3 dose	30 oz/100lbs (1960 mL/100 kg)



DIRECTIONS FOR USE

ACCELGUARD G3 is typically used at dosages of 10 - 90 oz/100lbs (650 - 5870 mL/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.

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