

## ACCELERATORS

Master Format #: 03 30 00 03 40 00

# ACCELGUARD® 90

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 90 may be used in these types of concrete.

## DESCRIPTION

ACCELGUARD 90 is a ready to use, accelerating and water reducing liquid admixture for concrete. It increases early strength at low temperatures and is especially effective in extremely cold temperatures as low as 20°F (-7°C) when using a cold weather admixture system. ACCELGUARD 90 will also increase workability and reduce bleeding and segregation. This product is compatible with most other admixtures commonly used in conventional concrete. ACCELGUARD 90 is effective in concrete of any temperature and is particularly effective in freeze-resistant concrete admixture systems. ACCELGUARD 90 contains no added chlorides or chemicals known to promote the corrosion of steel.

## PRODUCT CHARACTERISTICS

### FEATURES & BENEFITS

- Reduces initial set 1 to 6 hours depending on concrete temperatures
- Cuts construction costs - concrete placing cycle is accelerated
- Improves workability and provides denser concrete
- Minimizes bleeding and segregation
- Improves compressive strength development at early ages
- Decreases overtime allowing same day finishing

### PRIMARY APPLICATIONS

- Cold weather / freeze resistant concrete
- Structural and plain concrete
- Precast and post tensioned concrete

## PRECAUTIONS/LIMITATIONS

- Keep concrete from freezing until a minimum of 500 psi (3.5 MPa) is achieved.
- ACCELGUARD 90 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, lb/yd <sup>3</sup> (kg/m <sup>3</sup> )	517 (306)
Air content	7% (± 1)
Ambient temperature	73° F (22.8°C)
Concrete temperature	73° F (22.8°C)
Accelguard 90 dose	10 oz/100lbs (650 mL/100 kg)

#### Cold Weather

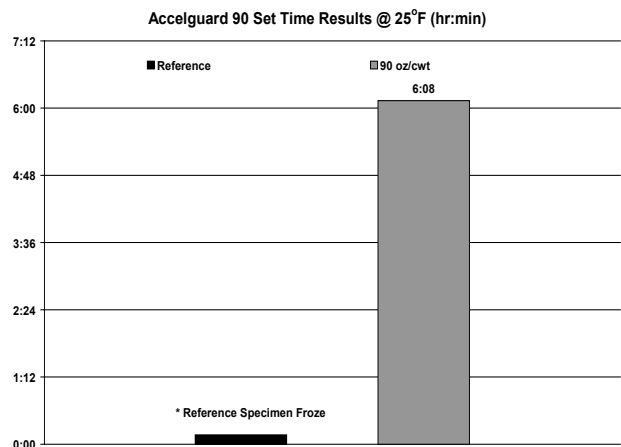
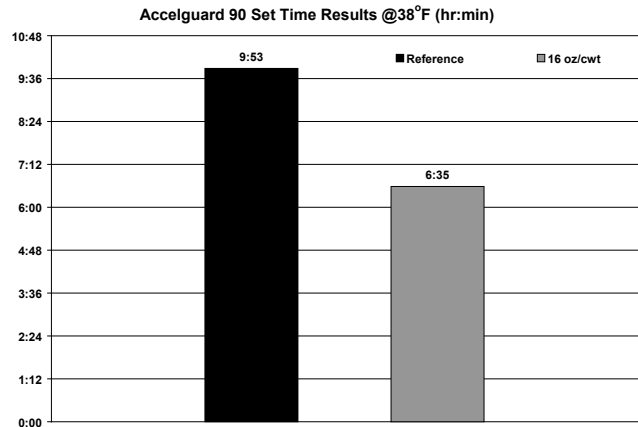
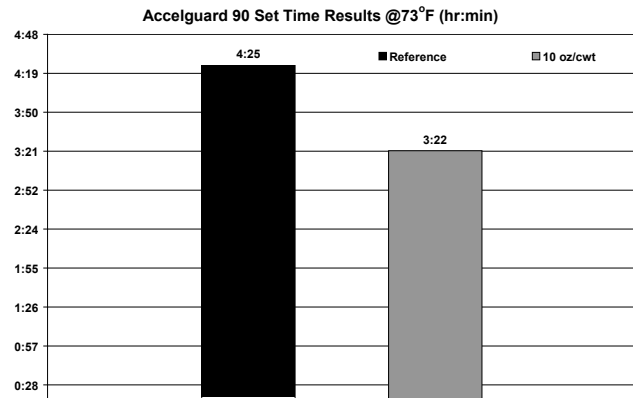
##### Mix data

Type I cement, lb/yd <sup>3</sup> (kg/m <sup>3</sup> )	517 (306)
Air content	7% (± 1)
Ambient temperature	38° F (3.3°C)
Concrete temperature	47° F (8.3°C)
Accelguard 90 dose	16 oz/100lbs (1040 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	28° F (-3.3°C)
Concrete temperature	38° F (8.3°C)
Accelguard 90 dose	90 oz/100lbs (5870 mL/100 kg)



## DIRECTIONS FOR USE

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