



ACCELGUARD[®] 90

NON-CHLORIDE, ACCELERATING & WATER REDUCING ADMIXTURE

EUCLID CHEMICAL

DESCRIPTION

ACCELGUARD 90 is 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 90 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. ACCELGUARD 90 is effective in concrete of any temperature, it is particularly effective in freeze-resistant concrete admixture systems.

PRIMARY APPLICATIONS

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

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

TECHNICAL INFORMATION

Technical Information

Mild Weather

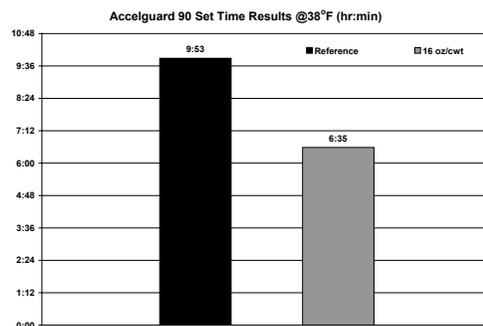
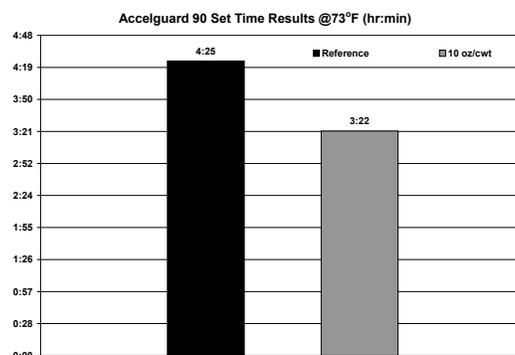
Mix Data

Type I cement, lb/yd ³ (kg/m ³)	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/cwt (652 mL/100 kg)

Cold Weather

Mix data

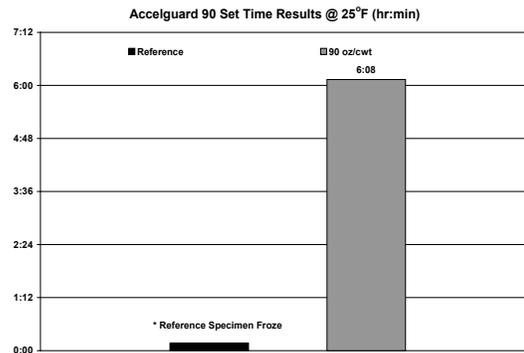
Type I cement, lb/yd ³ (kg/m ³)	517 (306)
Air content	7% (± 1)
Ambient temperature	38° F (3.3°C)
Concrete temperature	47° F (8.3°C)
Accelguard 90 dose	16 oz/cwt (1043 mL/100 kg)



Sub-Freezing Weather

Mix data

Type I cement, lb/yd ³ (kg/m ³)	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/cwt (5868 mL/100 kg)



PACKAGING

ACCELGUARD 90 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 90 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 90 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 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.

PRECAUTIONS/LIMITATIONS

- Keep concrete from freezing until a minimum of 1000 psi (7 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.

Rev. 11.14

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