ACCELGUARD® 90
NON-CHLORIDE, ACCELERATING & WATER REDUCING ADMIXTURE

**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**

**Mild Weather Mix Data**

- Type I cement, lb/yd³ (kg/m³) 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/yd³ (kg/m³) 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)
**WARRANTY:**

The Euclid Chemical Company (“Euclid”) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and Buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid’s installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid’s products for the Buyer’s intended purposes.

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**Sub-Freezing Weather**

**Mix data**

- Type I cement, lb/yd³ (kg/m³): 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)

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**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.