



THE EUCLID CHEMICAL COMPANY

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ACCELGUARD® HE

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**ACCELERATING AND WATER REDUCING
ADMIXTURE**

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ACCELGUARD HE is a combination accelerating and water-reducing admixture for concrete. It improves the plastic and hardened properties of concrete such as workability, compressive and flexural strengths and freeze-thaw resistance. It is a chloride base material, compatible with air entraining agents, but should be dispensed separately into the concrete mix.

PRIMARY APPLICATIONS

- Cold weather concreting
- Structural concrete
- Concrete blocks
- Concrete pipe and many pre-cast items

FEATURES / BENEFITS

- Reduces initial set
- Provides high early strength for fast form stripping
- Cuts construction cost-no cold weather delays
- Densifies concrete
- Minimizes bleeding and segregation

SPECIFICATIONS / COMPLIANCES

- ACCELGUARD HE meets or exceeds the requirements of ASTM C-494, Type E admixture.
- ACCELGUARD HE meets or exceeds the requirements of AASHTO M-194.

PACKAGING

ACCELGUARD HE is available in bulk, 275 gal (1041 liter) totes, 55 gal (208 liter) drums and 5 gal (18.9 liter) pails.

TECHNICAL INFORMATION

Typical Engineering Data

ACCELGUARD HE is typically used at dosage rates of 16 oz to 32 oz/100 lb (1000 to 2000 ml/100 kg) of cement for most work. As the quantity is increased the acceleration of setting time and strengths are increased.

Mix Design	1#(kg)	#2(kg)
Cement	446 lb (202)	446 lb (202)
Fine Aggregate	1580 lb (717)	1580 lb (717)
Coarse Aggregate	1750 lb (794)	1750 lb (794)
Water Added	265 lb (120)	270 lb (122)
ACCELGUARD HE	32 oz/cwt	16 oz/ cwt

Typical Results

Yield	27.2	27.2
Slump	3" (76 mm)	3-1/4" (83 mm)
Air	2.6%	2.3%
Average 7 day	4,050 psi (27.9 MPa)	3,740 psi (25.8 MPa)
Average 28 day	5,155 psi (35.6 MPa)	4,775 psi (32.9 MPa)
Initial Set	4 hrs. 8 min.	4 hrs. 32 min.

Shelf life is 2 years in original, unopened package.

DIRECTIONS FOR USE

Add ACCELGUARD HE with water and aggregate to the ready mix concrete truck, but do not dispense onto dry cement. For temperatures 32° to 60°F (0° to 16°C), add to concrete at the rate of 1 pint to 1 quart/100 lb of cement (1000 to 2000 ml/100 kg), depending upon the amount of acceleration desired in the field. For temperatures below 32°F (0°C) heat aggregates and use warm water. In all cases follow ACI 306 Cold Weather Requirements.

PRECAUTIONS / LIMITATIONS

- Do not dispense directly onto dry cement.

Form Accelguard HE-10.00

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