



# A-10 ACCELERATOR

## CHLORIDE BASED ADMIXTURE FOR MASONRY

**PRODUCT DESCRIPTION:** *Specco A-10 Accelerator* is a liquid calcium chloride solution that is added to masonry mixes to accelerate the normal set-time and to lower the freezing point of the mix. Additionally, *A-10 Accelerator* increases the ultimate strength and improves the workability of the batch materials.

### BENEFITS:

- Reduces set times
- Improves workability
- Increases strength development in Portland cement mixes at crucial early stages

**COMPOSITION:** 32% calcium chloride solution

**LEED CREDIT CONSIDERATIONS: MR Credits 5.2:** Regional materials-Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, Illinois 60901. 90% Content Harvested within 500 miles.

PHYSICAL PROPERTIES @ 70°F {21°C}:	APPROXIMATE VALUES:
Weight / gallon:	11.00 +/- 0.50 lb./gallon
Freezing point:	(-) 17°F
Color:	Clear Blue Liquid

**DIRECTIONS FOR USE:** Specco recommends a field test or trial mix be run in order to determine the optimum dosage needed for set time and rate of strength gain requirements. The *A-10 Accelerator* dosage will vary with jobsite temperature, air movement, mortar or grout temperature and mass, mix design components or other admixtures, as well as heat, insulation, or wind-break protective measures used. For additional reference, Specco recommends following the cold weather masonry construction guidelines listed under **Chapter 5 of ACI 531R-79 Building Code Requirements for Concrete Masonry Structures**. *A-10 Accelerator* may be added either to the mixing water or directly to the mortar batch. Typical mix water dilutions with water (by volume) are 1:7 at 15° F, 1:10 at 20° F, 1:15 at 25° F. When adding *A-10 Accelerator* directly to the batch materials, reduce mixing water accordingly. The batch materials must be mixing while adding *A-10 Accelerator*. After mixing for a minimum of 3-5 minutes, the mixing drum should not idle, and the contents should be discharged and used within one hour

**DOSAGE:** Typical dosage amounts are shown below. The dosage can be increased as needed to accelerate the setting time and both early and ultimate strength gain. *A-10 Accelerator* may be added to the mix in the following proportions. The **Portland Cement Association** recommends that calcium chloride be added at no greater than 2% of the cement weight to avoid any long term corrosion problems with reinforcement steel. Therefore, *A-10 Accelerator* can be added at a maximum rate of approximately 2.4 quarts per bag of cement to keep the chloride at this 2% level. However, temperatures colder than 20°F may still require higher dosages to provide adequate set as shown below.

TEMPERATURE RANGE:	DOSAGE PER BAG OF MASONRY CEMENT:
15 to 20°F (-9.4 to -6.6°C)	2 Quarts
20 to 28°F (-6.6 to -2.2°C)	3 Pints
28 to 40°F (-2.2 to 4.4°C)	1 Quart
40 to 50°F (4.4 to 10.0°C)	1 Pint
50 to 70°F (10.0 to 21.1°C)	-
Over 70°F (21.1°C)	-





**CAUTIONS:** *A-10 Accelerator* should be stirred before using if the material has set for an extended period (3-6 months). Routine cold weather masonry construction practices should be followed whenever possible to ensure optimum strength gain performance in the field. These include the following guidelines:

1. Avoiding the use of frozen materials or materials containing ice.
2. Providing heated enclosures or material surrounds in cold extremes to reduce wind/snow exposure.
3. Protecting all masonry for a minimum of 24 hours by covering with tarps, insulated blankets, or other heat retaining / wind reducing materials.
4. Preheating materials that are below freezing and using dry masonry units whenever possibly to reduce damage due to freezing.

For temperatures below 32° F (0° C) use warm water and heated aggregates to keep the mortar temperature above 60° F (16° C) if possible. Keep mortar from freezing until a minimum of 1000 psi (7 Mpa) is achieved. Do not use severely frozen aggregates, block or bricks. In extremely cold weather, provide heated enclosures. Do not use *A-10 Accelerator* when the temperature exceeds 90° F and rising. *A-10 Accelerator* is not recommended for use with non-Portland based cement compositions. Coat contact areas of window and door frames using aluminum primer to protect against rusting. Keep away from embedded copper wires. Protect rebar or use epoxy coated rebar or galvanized wall reinforcements, clips and ties. Do not use *A-10 Accelerator* with integrally colored mortar mixes as chloride can react with pigments and cause discoloration. Consult Specco Industries technical service for alternative non-chloride accelerators to use with integral color mixes or as specified.

**GHS HAZARD RATINGS: WARNING:**



**IRRITANT: SKIN IRRITATION.**

**FIRST AID: Refer to product S.D.S. (Safety Data Sheet) for complete health and safety information before using this product. FOR MEDICAL EMERGENCIES ONLY – CALL INFOTRAC AT 800-535-5053.**

**WARNINGS & SAFETY INFORMATION:** *A-10 Accelerator* is designed for use by qualified professional contractors and trained applicators. Although it is non-corrosive to skin, avoid prolonged skin contact. Wash skin with soap and water if exposed to avoid irritation. Wear splash resistant eye protection and impervious gloves when handling. There are no fumes associated with *A-10 Accelerator* when applied manually by high volume, low pressure or pump up sprayers. Keep containers closed. Avoid ingestion, skin and eye contact and inhalation of the spray mist. Keep away from food and drink. Wash hands thoroughly after use and before eating. **DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.**

**H.M.I.S. CODES:** HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PERSONAL PROTECTION = C (GLOVES, GOGGLES, APRON)

**SHIPPING NAME:** Masonry Admixture - Water base - Not regulated

**SHIPPING CLASS:** ITEM 33880, SUB 2, Freight Class 55

**STORAGE:** Ideal storage is between 60° F to 80° F

**SHELF LIFE:** 1 year properly stored

**PACKAGING:** 1gallon (3.78 L), 5 gallon (18.9 L), 55 gallon (208 L), 265 gallon (1000 L), 330 gallon (1245 L) containers.

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