

A-10

ACCELERATING ADMIXTURE FOR MASONRY-CHLORIDE BASED

PRODUCT DESCRIPTION: Specco A-10 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 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

PHYSICAL PROPERTIES @ 70°F {21°C}:	APPROXIMATE VALUES:
Weight / gallon:	11.0 +/- 0.5 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 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. Specco 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 directly to the batch materials, reduce mixing water accordingly. The batch materials must be mixing while adding A-10. 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: Specco A-10 is typically dosed as shown below. The dosage can be increased as needed to accelerate the setting time and both early and ultimate strength gain. Specco 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: Specco A-10 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.

CAUTIONS (Continued):

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 when the temperature exceeds 90° F and rising. A-10 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 compressed air to force the material from the drum. Consult Specco Industries technical service for suggestions or alternative product recommendations if non-chloride accelerators are required, such as Specco A-80.

WARNINGS: Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from food and drink. Do not take internally. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. 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: Concrete Admixture - Water base - Not regulated

SHIPPING CLASS: ITEM 33880, SUB 2, LTL 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), 30 gallon (113.4 L), 55 gallon (208 L), 265 gallon (1000 L), 330 gallon (1245 L) containers.

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product.

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