

A-80

NON-CHLORIDE ACCELERATING ADMIXTURE FOR MASONRY

PRODUCT DESCRIPTION: Specco A-80 is a non-chloride, accelerating admixture designed to aid the placement of mortars and grouts in cold or sub-freezing temperatures. A-80 allows improved mortar workability, increases early and final strength gain formation, and can be used over a wide range of temperatures by varying the dosage. Specco A-80 is formulated to comply with ASTM C-494 Type C and E guideline. Specco A-80 can also be used to accelerate ready mix, mobile mix, precast block, and precast concrete.

BENEFITS: ALLOWS EARLY STRENGTH GAIN...PROVIDES FASTER SET TIMES...ALLOWS HIGHER ULTIMATE STRENGTHS...INCREASES BOND STRENGTHS OF MORTAR TO BRICK AND BLOCK... WILL NOT CONTRIBUTE TO EFFLORESCENCE...SAFE TO USE ON COLORED MORTARS ...SAFE TO USE WITH MASONRY IN CONTACT WITH REINFORCEMENT STEEL

COMPOSITION: Modified nitrate-based solution. A-80 does not contain any calcium chloride or intentionally added chlorides that would initiate or promote corrosion of reinforcement steel, or contribute to efflorescence.

PHYSICAL PROPERTIES at 70°F (21°C):	APPROXIMATE VALUES:
Weight per gallon:	12.1 +/- 0.1 lb./ gallon
pH:	8.0 +/- 0.5
Color:	Clear light brown liquid
Viscosity-Brookfield:	20 cps

TECHNICAL DATA: When used at 16 ounces per bag of cement, Specco A-80 allows approximately 25% faster set times for all 3 masonry cement types when compared against control mixes with no admixture. Specco A-80 also allows higher compressive strengths at 40°F, thereby meeting the requirements of ASTM C-270. Additionally, higher ultimate strengths and increased bond strengths to brick and block are observed.

COMPRESSIVE STRENGTH @ 40°F (4.4°C) PER ASTM C-270:

AGE:	TYPE M		TYPE S		TYPE N	
	CONTROL	A-80 @ 24oz	CONTROL	A-80 @ 18oz	CONTROL	A-80 @ 12oz
1 DAY	300 psi	570 psi	250 psi	320 psi	210 psi	300 psi
3 DAYS	680 psi	970 psi	480 psi	690 psi	410 psi	480 psi
7 DAYS	1180 psi	1410 psi	880 psi	1170 psi	630 psi	660 psi

DIRECTIONS: Specco A-80 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 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.

DOSAGE RATES PER BAG:	APPLICATION TEMPERATURES:		
CEMENT TYPES:	32°F AND ABOVE	20°F TO 32°F	BELOW 20°F
PORTLAND CEMENT	32 Oz. = 1.00 quart	48 Oz. = 1.50 quart	64 Oz. = 2.00 quart
MASONRY CEMENT -TYPE M	24 Oz. = 0.75 quart	34 Oz. = 1.10 quart	46 Oz. = 1.40 quart
MASONRY CEMENT -TYPE S	18 Oz. = 0.60 quart	28 Oz. = 0.90 quart	36 Oz. = 1.10 quart
MASONRY CEMENT -TYPE N	12 Oz. = 0.40 quart	20 Oz. = 0.60 quart	24 Oz. = 0.75 quart

CAUTIONS: Specco A-80 will freeze at approx. -15° F (-26° C), but may be completely restored by thawing above 32° F (0° C) and thoroughly mechanically agitating before use. Do not use pressurized air for mixing or agitation. Specco A-80 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 materi
4. Preheating materials that are below freezing and using dry masonry units whenever possibly to reduce damage due to freezing.

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 & CLASS: Masonry Admixture - Not regulated ITEM 33880, SUB 2, LTL 55

STORAGE: Ideal storage is between 60° to 80° F. Keep from freezing.

PACKAGING: 5 gallon (18.9 L) pails, 55 gallon (208 L) drums, 265 gallon (1000 L) containers.

SHELF LIFE: 1 year stored properly. Depending on storage conditions, the shelf life may be extended.

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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