

## A-40

### ACCELERATING & PLASTICIZING ADMIXTURE- NON-CHLORIDE

**PRODUCT DESCRIPTION:** Specco A-40 is a non-chloride accelerator and water reducing admixture for concrete, that reduces the setting time of the mix, increases strength development, reduces bleeding and segregation and improves workability. A-40 also provides rust protection for all iron rebar. A-40 can be used to accelerate ready mix, mobile mix, block, precast, prestressed, lightweight concrete, mortars and grouts.

**BENEFITS:** REDUCES SET TIME...IMPROVES WORKABILITY...INCREASES STRENGTH DEVELOPMENT ...COST EFFECTIVE OPTION VERSUS OTHER NON-CHLORIDE ACCELERATORS

**COMPOSITION:** A solution of non-chloride, rust-inhibiting accelerators and superplasticizers. A-40 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:	9.50 +/- 0.5 lb./ gallon
pH:	9.5 +/- 0.5
Color:	Brown-Yellow liquid
Viscosity –Brookfield:	40 cps

**TECHNICAL DATA:** Specco A-40 Accelerator is formulated to comply with ASTM C-494 Type C and E guidelines. Specco A-40 is typically dosed at 12-24 oz. per 100 lbs. of cement (780-1560 ml/100 kg) for most applications. 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 temperatures and air movement, concrete temperature and mass; mix design components or other admixtures, as well as heat, insulation, or windbreak protective measures used.

**DIRECTIONS FOR USE:** To promote an accelerated set, A-40 may be used at the rate of 1 quart to 1 gallon per 100 pounds of cement. Higher dosages may be required. Specco A-40 Accelerator must be added to the batch water and aggregates. Do not add A-40 to dry cement. A-40 contains a high range water reducer that reduces water requirements approximately 5% to 7%. When used to protect concrete from freezing, dosage will vary with different types of cement and ambient temperatures.

**CAUTIONS:** For temperatures below 32° F (0° C) use warm water and heated aggregates to keep the concrete temperature above 60° F (16°C) if possible. Refer to ACI 306.1 report “Standard Specification for Cold Weather Concreting” for recommended protection methods of concrete placement in sub-freezing temperatures. Keep mortar from freezing until a minimum of 1000psi (7 Mpa) is achieved. Do not use severely frozen aggregates, block or bricks. In extremely cold weather, provide heated enclosures. Do not exceed 90° F at any time. Specco A-40 will freeze at 15° F, but may be completely restored by thawing at room temperature and thoroughly mechanically agitating. Do not use pressurized air for mixing or agitation. Specco A-40 should be stirred before using if the material has set for an extended period (3-6 months).

**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. Keep from freezing.

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

**PACKAGING:** 1 gallon, (3.78 L), 5 gallon (18.9 L) pails, 55 gallon (208 L) drums, 265 gallon (1000 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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