

# Accelerator

**Admixture for accelerating set of cementitious materials. Meets ASTM C494 Type C and E.**

**WHERE TO USE**  
**Protects cementitious materials from damage due to low temperature during early stage curing.**

## PERFORMANCE CHARACTERISTICS

### Non-chloride based

- Non-corrosive to embedded metal and reinforcing steel. Reduces efflorescence in mortar.

### Cold weather protection

- Aids proper curing when used in combination with cold temperature practices. Refer to ACI Cold Weather Applications.

### Increased productivity

- Reduces finishing time for concrete slabs and form removal time for cast concrete.

### Early strength gain

- Accelerates initial cure by 40%. Allows mortar to bear loads sooner and shortens time to finish.

### Reduces mixing water

- Decreases bleed water and improves workability.

## SURFACE PREPARATION

- *Accelerator* is an admixture. Refer to the specific product bulletin for material to be used for surface preparation.

## PRIMING

- Priming is not necessary.

## MIXING

- Stir or shake container and pour into mix at the desired addition rate.

## APPLICATION

### Masonry

- Refer to the technical data in this bulletin for recommended dosage rates.
- Brick and block must be free of excess water.
- Add *Accelerator* to the mixing water, not into dry cement.
- Mix for 3 minutes.
- When temperatures are expected to be at or below 25°F for 24 hours or longer, supplemental protection and heat are recommended. Refer to Recommended Practices and Guide Specifications for Cold Weather Masonry Construction published by International Masonry Industry All Weather Council.
- Heated sand and water may be used.
- Cover work as completed to aid in curing.
- Protect from severe weather.

### Concrete

- Refer to the technical data in this bulletin for recommended dosage rates.
- Cooler mix temperatures will slow rate of initial set, higher mix temperatures will accelerate rate of set.

- Reduce total water content normally added by at least 10%.
- Add *Accelerator* directly to concrete.
- Mix for at least 3 minutes.
- Place concrete within 1 hour.
- Use heated water and aggregate.
- Temperature of mix when placed should be 55°F.
- Sub soil temperature should be above 40°F to prevent thermal shock and cracking.
- Direct flame or gases from heating devices during early stage curing can damage materials.
- Refer to ACI 306 Recommended Practice for Cold Weather Concrete.

## CURING

- Refer to curing procedures above for concrete and mortar.

## CLEAN UP

- Clean tools and equipment as normal.

# Accelerator

## COVERAGE/YIELD

- Determined by addition rate.

## PRODUCT HANDLING

### Packaging

- 1 and 5 gallon containers.

### Shelf Life

- 18 months in unopened containers.

### Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

## LIMITATIONS

- Proper cold weather procedures should be followed when working in freezing temperatures.
- Product accelerates curing; it is not an anti-freeze.
- Properly vent enclosures so that gases from heating devices do not cause damage to cementitious materials during curing.
- Use dry, frost free masonry units.
- If Conproco *Accelerator* freezes, it can be thawed and remixed by vigorous shaking before use.

## HEALTH AND SAFETY

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Avoid breathing vapors
- Refer to Material Safety Data Sheet (MSDS) for additional information.

## FIRST AID

- In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional. For respiratory problems, remove person to fresh air.

## DISPOSAL

- Dispose of material in accordance with local, state or federal regulations.

MORTAR – Temperature	94 lbs. of Cement	80 lbs. bag of Type S Mortar
32°F and above	22 oz. – 2-3/4 cups	8 oz. – 1 cup
25°F - 32°F	44 oz. – 5-1/2 cups	16 oz. – 2 cups
20°F - 25°F	66 oz. – 8-1/4 cups	24 oz. – 3 cups
15°F - 20°F	88 oz. – 11 cups	28 oz. – 4 cups

  

CONCRETE – Temperature	94 lbs. of Cement	Concrete – yds. 3/6 bag mix
32°F and above	22 oz. per bag	1 gal.
25°F - 32°F	44 oz. per bag	2 gal.
20°F - 25°F	66 oz. per bag	3 gal.
15°F - 20°F	88 oz. per bag	4 gal.

## TECHNICAL DATA

Physical state and appearance		Clear liquid
Base		Aqueous
Odor		None
pH		11.5
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.
Setting time	ASTM 191	Initial – set 2 hours earlier Final – set 1 hour earlier
Water content	ASTM C494	80% of control
		<b>3 Days    7 Days    28 Days</b>
Compressive strength – psi	ASTM C109	1275    1480    1550
Percent of control – %		150    116    119

\*Conproco Mortar Mix used for testing.

### FOR PROFESSIONAL USE ONLY

Conproco Corp. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. January 2005.

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