

# COLD CHECK

## A CHLORIDE BASED LIQUID ADMIXTURE USED TO ACCELERATE THE SET TIME OF CEMENT BASED MIXES IN COLD WEATHER APPLICATIONS

**COLD CHECK** is a chloride based, liquid admixture specifically designed to accelerate the initial and final set times of cement based mixes in cold weather applications. Cold Check reduces initial and final set times thus helping to protect cement based mixes from freezing.

### USES and ADVANTAGES

- Cold weather protection.
- Reduces initial and final set times.
- Accelerates cement hydration and reduces set times by as much as two thirds.
- High early strength development.
- Improves workability.
- Permits early stripping of forms, faster construction.
- Increases compressive and tensile strengths.
- Increases durability of any concrete product.
- Decreases porosity of cement based mixes.
- Reduces the bleeding rate and capacity.

### DOSAGE RATES

Cold Check is ready to use, do not dilute. Stir or shake well before using. Add directly to gauging water. Dosage rate is determined by the lowest expected temperature for a period of 48 hours following placement.

#### Umaco Products

##### **Above 32 degrees F:**

Add 1/4 of a quart to each 50 pounds of material.

##### **Below 32 degrees F:**

Add 1/3 of a quart to each 50 pounds of material.

#### Portland Cement

##### **Above 32 degrees F:**

Add one quart per each 94 pound bag of cement.

##### **Below 32 degrees F:**

Add 1-3/4 quarts per each 94 pound bag of cement.

#### Masonry Cement

##### **Above 32 degrees F:**

Add 1/2 quart per each 70 pound bag of masonry cement.

##### **Below 32 degrees F:**

Add one quart per each 70 pound bag of masonry cement.

#### Concrete

##### **Above 32 degrees F:**

Add 1-1/4 gallons per each cubic yard of concrete (5 bag mix).

##### **Below 32 degrees F:**

Add 2 gallons per each cubic yard of concrete (5 bag mix).

### PRECAUTIONS

- Cold Check affects only the Portland cement portion of the mix and is not an antifreeze for the water portion.
- Use only clean, well graded materials free of ice in the mix.
- Below 25 degrees F, artificial heat is required in addition to Cold Check.
- Below 32 degrees F, heat aggregate and water for proper curing time.
- Do not use in concrete containing rebar, pre-stressing strand or where galvanized steel will remain in permanent contact with the concrete...Umaco NCA (Non-Chloride Accelerator) may be used for these applications.

- Do not use where discoloration of surfaces cannot be tolerated including architectural, decorative or exposed concrete surfaces.

### **WARNING!**

Do not take internally. If swallowed, seek immediate medical attention. In case of eye contact, flush with plenty of water for at least 15 minutes. If irritation persists, seek immediate medical attention. In case of skin contact, wash with soap and water. If irritation persists, seek immediate medical attention. Gloves and eye protection are recommended when using this product. Read Material Safety Data Sheet (MSDS) before using this product which may be obtained from your retailer or by calling 978-453-8881.

24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

### **KEEP OUT OF REACH OF CHILDREN!**

**For technical assistance call 978-453-8881**

#### LIMITED WARRANTY

*The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective.*

*Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.*

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