

# ProCast™ 710

## Retarding Admixture

### Features and Benefits

- Highly effective cement hydration retarder.
- Slows down the initial rate of cement hydration allowing more time to place the concrete before it becomes too stiff to handle and consolidate properly.
- Consistent and predictable workability extension for dry and wet cast concrete mixes.
- Recommended for hot weather concrete, white cement and small batch production.
- Effective over a wide range of mix designs and materials.

### Guidelines for Use

**Dosage rate:** ProCast 710 recommended dosage rate will vary depending on temperature conditions and the level of retardation required.

- ProCast 710 is designed to be used between 2 and 6 oz/cwt of cement (fluid ounces per one hundred pounds of cement) or 130 to 400 ml/100 kg of cement.
- Dosage rates will need to be adjusted based on the ambient temperature in the plant and the temperature of raw materials.
- As temperatures rise the needed dosage rate will also increase.
- Use only as much as necessary to get required additional working time.
- Start with 2 oz/cwt (130 ml/100 kg) of cement
  - If working time is not adequate, increase dosage in 0.5 oz/cwt (30 ml/100 kg) increments until optimum is reached.
  - If working time is more than needed, decrease dosage in 0.5 oz/cwt (30 ml/100 kg) increments until optimum is reached.



### Description

ProCast 710 is a cement hydration retarder that works to extend workability and allow more time to place concrete in hot weather and small batch production

### Recommended For

Dry Cast Concrete Products  
Wet Cast Concrete Products

### Technical Information

Color: Transparent Straw

### Health & Safety

Consult SDS for Health & Safety Information



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- ProCast 710 will extend set times, especially at temperatures below 80 °F (27 °C).
  - Be careful not to add too much, especially at temperatures below 80 °F (27 °C) as over-dosed concrete products may not reach sufficient strength after curing to be handled and packaged as normal.
- Higher dosages may be needed when temperatures are above 95 °F (35 °C).
- Dosage outside the recommended range may be required.
- Retardation performance may also be affected by the use of supplementary cementitious materials such as fly ash.

**Recommended Addition Time:** Add majority of the batch water upfront with the aggregates. Prewet with up to 75% of total water. Add admixtures at least 10 seconds after the cement gate closes (do not add on dry cement).

**Recommended Final Mix Time** (after all the admixtures are added)

Pan Mixer: 45 seconds minimum (1 minute optimal)

Ribbon Mixer: 2 minutes minimum (3 minute optimal)

## Product Storage and Shelf Life

**Freeze Protection:** ProCast 710 must be protected from freezing. Do not store at temperatures below 40°F (5°C). The admixture is not usable after it has frozen.

**Shelf life:** One year in original unopened container.

## Contact

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