

# NitroCast® NC

## Accelerating and Water-Reducing Admixture for Concrete

### PRODUCT INFORMATION

#### PACKAGING

Packaged in 55 gallon drums, 275 gallon totes, and in bulk.

#### SHELF LIFE

2 years in original unopened container.

#### STORAGE

**NitroCast® NC** freezes below 5°F. Although freezing does not harm **NitroCast® NC**, precautions should be taken to protect it from freezing. If it should happen to freeze, thaw and reconstitute with mechanical agitation. **Do not use pressurized air for agitation.**

#### SPECIFICATIONS/COMPLIANCES

ASTM C494 Type C and E  
AASHTO M 194 Type C and E

### DESCRIPTION

**NitroCast® NC** is a ready to use aqueous solution of complex compounds and non-chloride accelerators which provides the benefits of water reduction combined with excellent set and early strength acceleration. **NitroCast® NC** enhances the performance of plastic and hardened concrete. **NitroCast® NC** is manufactured under rigid quality control measures to provide uniform, reliable results.

### PERFORMANCE BENEFITS

- Freeze resistant concrete
- Increases early compressive/ flexural strengths
- Accelerates set time
- Improves finishability
- Improves surface texture and appearance
- Improves hydration
- Enables multi-castings per day in precast concrete production

### DOSAGE RATES AND DIRECTIONS FOR USE

**NitroCast® NC** is recommended for use at a dosage rate of 8 to 90 oz/cwt of cementitious material. (521 to 5864 mL/100 kg)

**NitroCast® NC** dosage rate depends on desired performance characteristics, mix variables, and conditions at time of placement. Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials used.

For best results, each admixture must be batched at separate intervals with the initial or final batch water, and should not come in direct contact with any other admixture until they are mixed in the concrete batch. Admixtures should not come in contact with any dry cementitious material.

### TECHNICAL NOTES

**NitroCast® NC** is compatible with Portland cements, Portland limestone cements, blended cements, class C and F fly ash, slag cements, silica fume, calcium chloride, fibers, air-entraining and water-reducing admixtures. **NitroCast® NC** can be used in all white, colored, and architectural concrete.

---

## PRECAUTIONS/LIMITATIONS

This product does not contain calcium chloride or chloride containing compounds, and any chloride ions present are in trace amounts resulting from municipal water used during the manufacturing process.

This product is compatible with most other admixtures when added to the mix separately. Always conduct trial batches, prior to job applications, to confirm compatibility and to verify mix results. Contact your technical sales representative before dosing outside of recommended ranges or for assistance with specialty applications.

In all cases, consult the safety data sheet prior to use.

---

Premiere Concrete Admixtures (herein PCA) warrants its products to be free from defects in material and manufacture. There are no other warranties by PCA of any nature whatsoever, expressed or implied. This information is based on data and knowledge believed to be true and accurate at time of publication and is offered as a resource for the users of our products. PCA shall not be liable in the use of this information and does not warranty the results obtained for any application. PCA shall not be liable for damages of any sort, the use or results of this product and shall not be responsible for conditions outside its control, including but not limited to, other materials, design, inspection, workmanship and field conditions. No statement, recommendation, or other information is intended to infringe on any patent or copyright held by others.