

# Arcrete CNI2

Corrosion Inhibitor Concrete Admixture

## DESCRIPTION

**Arcrete CNI2** is a calcium nitrite-based admixture designed to inhibit the corrosion of steel in reinforced concrete. Arcrete CNI2 is recommended for conventional steel reinforcement as well as prestressed or post-tensioned concrete that will be exposed to chlorides from marine environments or deicing salts. Arcrete CNI2 will extend the service life of structures by effectively inhibiting corrosion, in areas such as parking garage decks and support structures, bridge decks, marine structures and many others. **Arcrete CNI2** is manufactured to comply with the requirements of ASTM C-494 Type C & S.

## TYPICAL PROPERTIES

**Appearance:** Yellowish Clear Liquid

**Specific Gravity:** 1.235 ± 0.02 at 25°C

**Chloride Content:** Nil as per BS 5075

## COMPATIBILITY

With Cements:

**Arcrete CNI2** can be used with most types of Portland cements as well as Pozzolanic Cements, Natural Pozzolan, Ground Granulated Blast Furnace Slag (GGBFS) (**Arcrete BFS100**), Micro Silica (**Arcrete MS920**) and Fly Ash (**Arcrete FA10**). For use with other special cements, we recommend you contact Arkaz Technical Department.

With Other Admixtures:

**Arcrete CNI2** is compatible with other ARKAZ admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by trial mixes to ensure the desired combination of effects is obtained.

## ADDITION RATES

Range:

Typical specified dosage levels are normally in the range of 7 to 30 liters per cubic meter of concrete. Because **Arcrete CNI2** has a high dosage level, calculation of water cement ratio should include the water added to the mix in the admixture.

The optimum dosage is assessed after preliminary trials depending upon the actual mix constituents and specifications required.

Addition rates outside of the recommended dosage range may be used for special concrete applications. In such circumstances it is important to conduct preliminary trials on the actual mix constituents to assess the effect on the properties of the concrete at the dosage level specified.

## DISPENSING

It is preferable that **Arcrete CNI2** should be introduced into the mixer by means of independent automatic dispensing equipment. Such equipment or advice on dispensing can be obtained from Arkaz.

## METHOD OF USE

**Arcrete CNI2** is supplied ready for use. It should be added to concrete mixes either during the mixing cycle or at the same time as the water, or alternatively it should be added in its supplied form to a normal concrete mix a few minutes before the pour is made. In the latter case further mixing should be provided to ensure complete dispersion.

## PACKAGING

**Arcrete CNI2** is supplied in 210 non-returnable drums. Alternatively, 1,000-liter totes and bulk deliveries can be arranged.

## HEALTH AND SAFETY

For more Safety information you can check Product Material Safety Data Sheet, send an email to [ConcreteDoctor@arkaz.com](mailto:ConcreteDoctor@arkaz.com) or Contact Arkaz Technical Department.

## STORAGE & SHELF LIFE

**Arcrete CNI2** should be stored in original containers or suitable closed tanks preferably away from extreme temperature. Always keep product in shaded storage.

Storage Life: 12 months from date of manufacture.

## TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:  
concretedoctor@arkaz.com

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