

Polychem CI is a calcium nitrite, liquid corrosion inhibiting admixture for concrete containing steel reinforcement.

Polychem CI chemically inhibits the onset of corrosion from chlorides on the reinforcing steel.

Polychem CI has a minimum of 30% calcium nitrite by mass.

Polychem CI weighs approximately 10.6 lbs./gallon and is exactly the same chemical makeup as other 30% calcium nitrite corrosion inhibiting admixtures.

APPLICABLE STANDARDS

Polychem CI meets or exceeds the requirements of ASTM C 494, Type C, and AASHTO M 194.

ADVANTAGES

- Chemically inhibits corrosion process
- Protects steel reinforcement from damaging chlorides
- Preserves the structural integrity of reinforced concrete exposed to damaging chlorides
- Increases protection for reinforcement in concrete
- In cold weather, concrete setting times and strength development are accelerated without the incorporation and added cost of a non-chloride accelerator

DOSAGE RATES

The project will indicate or specify the amount necessary. Dosage rate is directly related to the level of chloride protection. Recommended for use at a dose of 2-5 gallons per cubic yard of concrete.

Polychem CI

Calcium Nitrite
Corrosion Inhibiting
Non-Chloride Accelerating
Admixture for Concrete

DOSAGE RATE FOR ACCELERATION

Polychem CI is recommended for use at a dosage rate of 8 to 90 fluid ounces per 100 pounds of cementitious material. Dosage rate will depend on desired performance.

COMPATIBILITY

Polychem CI is compatible with all types of Portland Cement and all Polychem admixtures. **Polychem CI** may be used with other corrosion protection products, such as silica fume, epoxy coated rebar and surface sealers.

PRIMARY APPLICATIONS

- Post tension and prestress concrete applications
- Parking garages
- Bridge decks, marine structures
- Any project requiring corrosion protection from de-icing salts or chloride exposure.

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MIX WATER ADJUSTMENT

A water adjustment must be made to allow for the water in the **Polychem CI**. This is necessary to maintain the specified water/cementitious ratio.

The water in the mix should be reduced by as much as the water added through the addition of the corrosion inhibitor. The adjustment factor is 7.2 lbs. of water for each gallon of **Polychem CI**.

AVAILABILITY

Polychem CI is available in 55 gallon drums, 275 gallon totes and in bulk.

General Resource Technology will install, service and maintain dispenser systems.