

REC PLAST CIA2

CORROSION INHIBITING ADMIXTURE

DESCRIPTION

REC PLAST CIA2 is a Calcium Nitrite based admixture designed to inhibit the corrosion of steel reinforcement in concrete. This product contains a 30% Calcium Nitrite solution. When used at recommended dosage rates, this product introduces the proper, industry recognized amount of anodic inhibitor.

PRIMARY APPLICATIONS

- Exterior steel reinforced concrete
- Structural and plain concrete
- Parking decks and exposed balconies

FEATURES/BENEFITS

- Calcium Nitrite based formula used for many years in the concrete industry
- Chemically inhibits the corrosion process
- Reduces the need for additional accelerating admixtures in cold weather
- Compatible with other commonly used Reckon Chemical admixtures
- Dosage rate is directly related to expected chloride concentration
- Increases protection for reinforcement in concrete

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Specific Gravity.....1.27 to 1.33
Unit Weight. 10.4 to 11.3 lb. /gal
Freezing point. 0°F (-18°C)

PACKAGING

REC PLAST CIA2 can be supplied in bulk, (1000 L) tanks, and (210 L) drums on demand of client.

SHELF LIFE

One year in original, unopened container.

SPECIFICATIONS/COMPLIANCES

- ASTM Classification C 494 Type C
- AASHTO Classification M 194 Type C
- Corps of Engineers Classification CRD C87 Type C

DIRECTIONS FOR USE

It is strongly recommended the optimum mix trials be made before the start of job site pours. This will allow the ready-mix concrete producer to determine the proper batching sequence and the required dosage of other admixtures needed to deliver the specified concrete mix to the job site. **REC PLAST CIA2** may be added with the concrete batch water. It should not be mixed with any other admixture prior to being introduced into the concrete mixer. Mix designs are supplied upon request.

Dosages

The Chloride to Nitrite ratio is important. The project specification will indicate or specify the amount of chloride ions protection necessary. The dosage rate of **REC PLAST CIA2** is directly related to the level of chloride protection and can be chosen from Table 1.

When no specified chloride ion protection level is specified contact sale representatives of the RECKON CHEMICALS PVT LTD., LAHORE .

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Dosage Rates vs Chloride Protection

REC PLAST CIA2

gal/ yd³--- Chloride lb / yd³

2.0-----	6.0
2.5-----	8.0
3.0-----	9.9
3.5-----	11.5
4.0-----	13.0
4.5-----	14.1
5.0-----	15.6
6.0-----	16.0

Table 2.

REC PLAST CIA2

Dosage Rates vs Retarder dosage

gal/ yd ³ -----	@70°F oz/cwt
3.0 to 4.0-----	3 to 5
4.0 to 5.5-----	4 to 7
5.5 to 6.0-----	5 to 8

Set Acceleration: REC PLAST CIA2 will accelerate concrete setting times at all recommended dosages. Mix Water Reduction: It is necessary to adjust the mix water to account for the water in REC PLAST CIA2, Subtract 7.0 lbs. or 0.85 gallons of water per gallon of REC PLAST CIA2. Cement and Admixture Compatibility REC PLAST CIA2 is compatible with all types of Portland cements, concrete and concrete containing pozzolans. REC PLAST CIA2 can be used in concrete mixes with other admixtures including air entraining admixtures, water reducers, retarders, superplasticizer, micro silica, fly-ash and slags. Each admixture must be added separately to the concrete mix.

PRECAUTIONS/LIMITATIONS

- Store at temperatures above 0°F (-18°C). When RECPLAST CIA2 freezes, its corrosion inhibition is completely restored by thawing and thorough agitation.
- Do not dispense directly onto dry cement.
- Quality concrete is necessary to slow the ingress of chloride into the concrete. According to ACI 318, the “Building Codes Requirements for Reinforced Concrete” requires certain design constraints, such as maximum water to cement ratio and providing adequate cover over the reinforcing steel. All pertinent codes and guides should be consulted prior to final approval of mix design.
- Additional protection can be achieved by using high range water reducing admixtures to reduce the water to cement ratio.
- In all cases, consult the Safety Data Sheet before use.

CLEAN-UP

Clean tools and equipment with water before concrete hardens.

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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Tell: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

