



KUT PLAST CaNi

Calcium Nitrite Corrosion Inhibiting Admixture For Reinforced Concrete

ADM – 22 - 0104

DESCRIPTION

KUT PLAST CaNi is a calcium nitrite based corrosion-inhibiting admixture for steel reinforced concrete. **KUT PLAST CaNi** admixture contains a minimum of 30% active ingredients by mass and is supplied as a pale straw coloured solution which instantly disperses in water.

USES

KUT PLAST CaNi will inhibit the potentially corrosive effects of chloride-bearing concrete-making ingredients. **KUT PLAST CaNi** when used will effectively inhibit corrosion in all types of steel reinforced concrete including precast / pre-stressed and post-tensioned applications. **KUT PLAST CaNi** is recommended for use in parking garages, bridge decks, marine structures, slabs, floors, and other reinforced concrete applications where corrosion protection against chlorides from deicing salts or marine exposure is desired.

ADVANTAGES

KUT PLAST CaNi is a corrosion inhibitor that provides basic corrosion protection for reinforced concrete structure.

- **Integral:** It is not a membrane or surface film.
- **Easy to use:** No special skills or extra labour is required.
- **Chloride free:** Safe in reinforced concrete.
- **Compatibility with cements:** Can be used with all types of Portland cements.
- **Effective** corrosion protection against chlorides in concrete.
- **Extends** the service life of reinforced concrete structures.
- **Compatible** with and can be used in conjunction with other **KUT** admixtures.

TYPICAL PROPERTIES

Calcium Chloride Content: Nil to **BS 5075:1982**.

Calcium Nitrite Content: Minimum 30%.

Appearance: Pale straw coloured solution.

Concrete setting time : Concrete setting times may be accelerated with the use of **KUT PLAST CaNi**. If desired, a retarding or hydration control admixture may be added to the concrete mixture to offset the acceleration effects of **KUT PLAST CaNi**. Please contact your **ASPEC** Technical Dept. for additional information on set-balancing admixtures for concrete.

Cement compatibility: Compatible with normal portland cements.

Admixture compatibility: Generally compatible with all other **ASPEC** concrete admixture if added separately to the mix.

INSTRUCTION FOR USE

The correct quantity of **KUT PLAST CaNi** should be measured by means of a suitable dispenser. The admixture should then be added to the concrete with the mixing water to obtain best results. Because **KUT PLAST CaNi** has a high dosage rate, calculation of water : Cement ratio should include the water added to the mix in the admixture.

Dosage: **KUT PLAST CaNi** is recommended for use at a rate of 5.0 to 30.0 L/m³ of concrete, depending upon the severity of the corrosion environment and the anticipated chloride loading of the structure, optimum dosage should determined by site trials with actual site conditions.

Overdosing : An overdose of double the recommended amount of **KUT PLAST CaNi** accelerate the setting time. The ultimate compressive strength of concrete will not be significantly affected.

Curing: As with all structural concrete, normal curing methods apply



Specialities Construction
Chemicals Factory

Amghara Industrial Area, P.O.Box: 23595 Safat, 13096 Kuwait, Tel: +965 4565165 - 4565145 Fax: +965 4565135
Email: technical@aspeckuwait.com



STANDARDS

KUT PLAST CaNi complies with **ASTM C 494** requirements for **Type C** Accelerating Admixtures.

PACKAGING

KUT PLAST CaNi is supplied in 210 litre drums and bulk supply by arrangement.

STORAGE: **KUT PLAST CaNi** should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use. **KUT PLAST CaNi** has a minimum shelf life of 12 months provided temperature is kept within the range of 5° C to 30° C. Do not store **KUT PLAST CaNi** above 50° C.

Important: Since the performance of concrete admixture is dependent on local conditions and on the quality of the other materials in the mix, it is strongly recommended that the site trials are conducted.

PRECAUTIONS

HEALTH AND SAFETY

KUT PLAST CaNi is non-toxic. Any splashes to the eyes should be washed immediately with water and medical advice should be sought.

FIRE: **KUT PLAST CaNi** is water based it is non-flammable, but it should be stored away from combustible material.

TECHNICAL SUPPORT

'ASPEC' provides technical support service on mix design, admixture selection, evaluation of trials, dispensing equipment etc. Please contact the Technical Department in these cases.

Cleaning: Spillage of **KUT PLAST CaNi** can be removed with water. Disposal of excess or waste material should be carried out in accordance with the local legislations under the guidance of the local waste regulations.

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