

## Corrotech CI 2005

### Migratory Liquid Corrosion Inhibitor

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#### Product Features

**Corrotech CI 2005** is a liquid concrete admixture for steel protection, to be added into concrete. **Corrotech CI 2005** can be added to the plasticising additive or to water. **Corrotech CI 2005** can also be used in repair mortars and grouts.

**Corrotech CI 2005** is composed of efficient patented corrosion inhibitors, combined with polyfunctional agents and a phosphonic combination made of amine salts, which increases corrosion inhibition properties.

**Corrotech CI 2005** protects steel by a well-proven, patented, migratory inhibition function. When used in fresh concrete mixes, **Corrotech CI 2005** will seek out and form a corrosion inhibiting protective layer on metals. When used with cementitious repair mortars and grouts, **Corrotech CI 2005** will migrate and reach undisturbed parent concrete, providing efficient corrosion protection to rebars which are already in place. Unique feature of **Corrotech CI 2005** is that the inhibitor will migrate a considerable distance through concrete to provide protection and will stop further corrosion of reinforcing metals.

**Corrotech CI 2005** increases life of all reinforced concrete structures

Effectively protects against corrosion. Will even migrate into the densest of concrete and to adjoining areas to protect surrounding metal elements & provides efficient protection against carbonation and attack by atmospheric gases such as CO<sub>2</sub>, SO<sub>2</sub>, Cl and so on.

Can be used in conjunction with other admixtures.

Water based, organic and non-flammable, therefore safe and user friendly.

Does not contain any calcium nitrite.

Concentrated version. Lesser downtime for mixing and definitely reduced logistical / storage requirements.

#### Typical Uses

**Corrotech CI 2005** is recommended for:

All reinforced concrete used in foundations, ground floors, split slabs, car decks, inverted roofs, basements, underground tunnels, etc.

All reinforced precast, pre-stressed, post-tensioned or marine concrete structures.

Concrete substructures in marine environment/splash zones, water reservoirs, swimming pools.

Pre-cast and all steel reinforced concrete structures exposed to de-icing salts and corrosive environment such as carbonation and atmospheric attack.

Industrial concrete structures with sulphur vapor.

Concrete mixed with chlorine water.

Cooling towers, plant & factory floors subject to chemical and / or acid attack.

Preventive maintenance, restoration and repair of all reinforced concrete structures, when utilizing proprietary repair mortars.

#### Preparation

**Corrotech CI 2005** shall be added to mixing water or to the additive (super plasticiser) at a ratio of one litre per cubic meter of concrete.

Can also be added at the same rate into repair mortars and grouts.

#### Direction for use

**Corrotech CI 2005** shall be added directly into the transit mixer at the readymix plant.

Can also be added at site directly into repair mortars or into portable mixers.

After adding, mix concrete thoroughly. Correct dosage to be maintained to obtain best results.

#### Estimating

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

**Corrotech CI 2005** is available in 20 litre pails or 200 litre drums.

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### Limitations

**Corrotech CI 2005** may slightly retard the setting time. Trial mixes should always be conducted to ascertain optimum performance of concrete as per given site conditions and requirements.

### Health & Safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

### Storage

**Corrotech CI 2005** has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.