

CAC-Corrobit OCI

Migrating Bipolar Organic Corrosion Inhibitor for re-inforced concrete with cathodic and anodic protection

Primary applications

CAC-Corrobit OCI is recommended for all structures in re-inforced concrete, normal or pre-stressed in particular in aggressive situations like bridges, viaducts, exposed concrete facades.

CAC-Corrobit OCI is normally recommended for use at a dosage rate of 2 Litre / m³ for all the congested re-inforcement concrete, aggressive corrosion environments and chloride exposure of the structure etc.

Features & benefits

- Anodic and cathodic protection
- Contains multiple complex migrating Bipolar Organic corrosion inhibitors
- Contains passivating functions.
- Reduction of the chloride permeability
- Reduction of carbonation >85%
- Reduction of the corrosion potential >80%
- Highly effective even in presences of chloride salts
- Increased concrete durability
- It does not contains nitrites and chlorides

Description

CAC-Corrobit OCI liquid admixture composed out of reactive mixture of multi-fuctional Bipolar Organic corrosion inhibitors which will be migrating and interfacial with anodic and cathodic protection with special efficiency in the nano-capillary of concrete and mortars. It can be used to achieve better protection against re-inforcement corrosion. It is active not only in contact with the metal, but also it migrates through the micro porosity of the concrete to reach the re-inforcement of existing structures to ionize consequently provide cathodic and anodic protection. CAC-Corrobit OCI is a superior technical solution to extend the life time expectancy of re-inforced concrete subjected to aggressive corrosion promoters such as oxygen, humidity, and chlorides from de-icing salts or marine environments etc.

Technical support

CAC provides a technical advisory services for on-site assistance and advises on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Typical dosage

The dosage of CAC-Corrobit OCI should be as determined in the concrete mix specifications.

Properties

Appearance	: Colorless Clear liquid
Specific gravity	: 1.040 to 1.06 @ 25±°C
Chloride content	: Nil to BS 5075
pH value	: 9 to 11 @ 25±°C

Application instructions

Compatibility

CAC-Corrobit OCI is compatible with other CAC 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.

CAC-Corrobit OCI is suitable for use with ordinary Portland cement. Contact CAC for advice on to use with sulphate resisting cements and cement replacement materials.

Dispensing

The correct quantity of CAC-Corrobit OCI should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results.

Curing

As with all structural concrete, good curing practices should be maintained. Water spray, wet hessian or a CAC-Curewell spray applied curing membranes should be used.

Limitations

Normal precautions for cold weather concreting should be followed where CAC-Corrobit OCI is used.

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Estimating

Packaging

CAC-Corrobit OCI is available in 20 and 200 litre containers.

Storage

CAC-Corrobit OCI has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C.

CAC-Corrobit OCI is an oxidizing agent and should be stored away from reducing agents and combustible materials.

Precautions

Health and Safety

CAC-Corrobit OCI is toxic and should not be swallowed or allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Fire

CAC-Corrobit OCI is water based and non flammable but should be stored away from combustible materials.

Cleaning and disposal

Spillages of CAC-Corrobit OCI should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Do not allow CAC-Corrobit OCI to enter rivers or drains. Disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

Disclaimer:

The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests and take trials to ensure suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of the other materials used and on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The Company does not assume any liability or any consequential damage for unsatisfactory results, arising from the use of our products.

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