

CORIB MCI 2020

Product Codes

ACR34, ACR35, Packaging listed overleaf

Description

Corib MCI is a clear water based system of corrosion inhibitors designed to penetrate through reinforced concrete in order to reach the steel reinforcement. Once the penetration has occurred the Corib MCI 2020 forms a monomolecular layer of corrosion protection around the reinforcing steel. The system is based on an aqueous solution of surfactants and amine compounds. These give protection against de-icing salts by pore blocking during the impregnation process. In addition dual protection is developed, at anode sites by the monomolecular layer on the steel and at cathodic sites by means of oxygen blocking. Corib MCI 2020 can be used as a stand alone protection system or as part of a multiple concrete repair system.

Uses include: Migrating corrosion protection for reinforced concrete
Simple application to the surface of concrete elements and structures by means of brush, roller or low pressure spray.
Movement through concrete by means of liquid and vapour phase diffusion

Specification Outline

Corrosion protection impregnation shall be carried out using Corib MCI 2020 as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN ISO 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

Typical Solution Properties @ 20 °C

Specific gravity	1.03 to 1.05
Appearance	Clear amber liquid
Flash point	None as water based
pH	9.0 to 9.7

External Testing

Corib MCI 2020 has been tested by US Strategic Highway Research Programme (SHRP), a unit of the US National Research Council and found to be one of the most promising technologies available.

Instruction for Use

Preparation

Concrete should be cleaned of any dust, loose material, oil and grease, concrete curing membrane, efflorescence and any organic growth. High pressure water jetting or grit blasting is recommended. Areas to be treated must be in a surface dry condition prior to application and if necessary protected from adverse weather conditions.

Application

For all applications Corib MCI 2020 must be used straight from the container as received.

The product should be applied by brush, roller or low pressure spray at a coverage rate of 3.68 m₂ per litre on absorbent concrete. Dense concrete may require two coats with 8 hours between applications of 7.36m₂ per litre. Corib MCI 2020 should be applied continuously working from the lowest level and continuing upwards. Do not apply at temperatures below 5°C. Equipment should be cleaned with water immediately after use.

Curing

No special curing is necessary. Corib MCI 2020 should not be applied when the temperature is expected to fall to freezing within 12 hours of application.

Precautions

Health and Safety

Corib MCI 2020 is an organic based product. The solution may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when during, using and cleaning. Ensure adequate ventilation to prevent inhalation of vapours. If skin contact occurs remove product immediately with cleansing cream and wash with soap and water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately.

Full health and safety details are given in Product Safety Data Sheet.

Fire

Corib MCI 2020 is classified as non-flammable. Solvent is flammable.



Grouts



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Waterproofing



Ground Engineering

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Limitations

On completing all applications of Corib MCI 2020 the concrete surface should be allowed to dry for 24 hours prior to preparation for further repair work or overcoating. Application of Corib MCI 2020 may slightly darken the concrete surface. Small scale testing may be desirable.

Protect adjacent areas to application such as metals, paintwork, brickwork and glass. Applications of Corib MCI 2020 will not penetrate film forming sealers, coatings, paints, membranes or asphalt.

Coverage

Coverage of Corib MCI 2020 is 3.68m₃ per litre on absorbent concrete. Dense concrete may require two coats of 7.36 m₃ per litre.

Storage And Shelf Life

Corib MCI 2020 will have a storage life of 24 months in unopened containers when kept in dry conditions at a temperature between 5°C and 45°C. Storage at higher temperatures may reduce shelf life. Protect from frost.

Packaging And Ordering

Corib MCI 2020 is supplied in:

5 litre polybottles Product Code ACR34
25 litre polybottles Product Code ACR35

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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Grouts

Structural Support
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ProductsConstruction
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Cementitious
AnchorsHighway
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Waterproofing

Ground
Engineering