

Migratory corrosion inhibitor for impregnation and penetration on existing concrete structures



[info. **PRECAUTIONS**]

Use the product carefully following the instructions in the technical data sheet and safety data sheet. Always wear suitable protective clothing. Consult the toxicological data sheet before use.

[info. **CONSUMPTION**]

Approximately 1 L / 6 m² of surface area.

[info. **PACKAGING**]

- 1040 L tank
- 210 L drum
- 19 L bucket
- 5 L container

[info. **STORAGE**]

Shelf life: 24 months in original, tightly closed packaging.

[info. **TECHNICAL SERVICE**]

Detailed technical instructions on the use of the products can be requested from your local representative or directly from PROIND S.r.l.

MCI® 2020 is a corrosion inhibitor that, when applied to concrete surfaces, migrates through the porosity of the conglomerate and fixes the active parts of these molecules to the reinforcing bars inside the concrete structure.

The exceptional feature of this product is that, if MCI® 2020 does not come into direct contact with the metal, it will migrate a considerable distance through the porosity of the concrete to find and protect the reinforcing bars.

Tests carried out with the SHRP (STRATEGIC HIGHWAY RESEARCH PROGRAM*) programme indicate a significant reduction in voltage and corrosion current even in concrete containing high levels of CHLORIDES. At these chloride levels, conventional NITRITE-based corrosion inhibitors tend to accelerate corrosion rather than inhibit it.

Furthermore, unlike nitrites, MCI® 2020, is non-toxic: acute oral toxicity MCI® 2020 = 2.250 mg/Kg equal to that of table salt (the acute oral toxicity of nitrites is almost 1,000 times higher = 3 mg/kg). MCI® 2020 is water-based.

Instructions for use

MCI® 2020 is applied by spraying or rolling onto concrete surfaces.

The migration inhibitor is capable of preventing further corrosion even in iron already affected by chlorides. It can be applied at all temperatures above zero. For concrete containing high concentrations of chlorides, two applications may be necessary for maximum effectiveness.

Surfaces must be cleaned of dirt, oil and grease before application. MCI® 2020 does not penetrate film-forming sealants, asphalt, paint, etc.; in such cases, contact our Technical Service to check the possibilities and recommendations for use.

Traffic can resume a few minutes after application. The spray does not damage paintwork or glass, and the product can be easily removed by washing it off with water.

Before applying a coating or other concrete to a surface treated with MCI® 2020, it should be noted that even a thin film of inhibitor can adversely affect adhesion; this can be avoided by rinsing the surface with water or removing it by sandblasting.

A simple rinse removes the thin layer of inhibitor, leaving a clean surface on which easy and effective adhesion is possible.

*NATIONAL RESEARCH COUNCIL (U.S.A.) Patented.