

Migratory corrosion inhibitor for concrete



[info. **PRECAUTIONS**]

Use in accordance with the instructions on the technical data sheet and safety data sheet. Wear full protective clothing. Consult the toxicological data sheet.

[info. **TYPICAL PROPERTIES**]

- Appearance: dark brown liquid.
- pH: 9,5-11,5
- Non-volatile part: 44-55%
- Density: 1,14-1,23 Kg/L

[info. **DOSAGE**]

Dose 0.6 L/m³ of mixture (mortar or concrete) regardless of chloride content. It can be added in the concrete mixing plant with the addition of water, on site in a concrete mixer or when mixing mortar or concrete.

[info. **PACKAGING**]

- 208 L drum
- 19 L bucket

[info. **STORAGE**]

Store at room temperature between 0 °C and 55 °C and away from direct sunlight. 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 srl.

MCI® 2005 is a water-based organic liquid corrosion inhibitor additive to be added to concrete and mortar to **protect reinforcing steel**. When added to MCI® 2005 concrete, it provides retardation effects while forming a monomolecular protective layer on the embedded metals.

In new constructions, it helps to raise the critical chloride threshold and reduce corrosion rates once the corrosion process has begun. Se utilizzato nella produzione o nell'aggiunta alle malte MCI® 2005 non solo protegge l'armatura dove viene applicato ma è in grado di migrare nelle parti adiacenti del calcestruzzo, proteggendo le strutture.

MCI® 2005 is an organic corrosion inhibitor, considered ambidrotic (mixed), as it protects both anodic and cathodic areas within a corrosion cell.

MCI® 2005 contains a mixture of amino salts of carboxylic acids that form a protective layer on the iron present, delaying the onset of corrosion and reducing existing corrosion rates.

Fields of application

MCI® 2005 It is recommended as an additive for reinforced concrete, precast, prestressed and post-tensioned structures, especially in marine environments that are particularly aggressive in terms of steel corrosion and where there is carbonation, the presence of chlorides and atmospheric attack.

- Bridges, viaducts, overpasses, car parks, exposed concrete, etc., wherever conditions of particular corrosive aggression exist.
- Post-tensioned concrete structures in the sea.
- Product certified to NSF Standard 61 for use with drinking water.

Advantages

- Lower toxicity and environmental impact compared to traditional calcium nitrite mixtures.
- Single product with low dosage rate independent of chloride content.
- Minimal effects on concrete properties (workability, strength development, air entrainment).
- Ability to migrate through porous substrates (concrete, masonry, limestone, etc.) by capillary action, vapour diffusion and ionic attraction.