

Surface Applied Corrosion Inhibitor

DESCRIPTION

MCI-2020 is a surface applied corrosion inhibitor designed to migrate through even the densest concrete structures and seek out the steel reinforcing bars. **MCI-2020** also protects a multitude of other metals including carbon steel, galvanised steel and aluminum. The unique feature of Migrating Corrosion Inhibitors™ (MCI®) is that if not in direct contact with metals, the inhibitor will migrate for a considerable distance through concrete to provide protection. **MCI-2020** will stop the further corrosion of reinforcing metals and extend the service life of the structure.

RECOMMENDED FOR

MCI-2020 is recommended for:

- All reinforced, precast, prestressed, post-tensioned or marine concrete structures.
- Steel-reinforced concrete bridges, highways and streets exposed to corrosive environments (carbonation, deicing salts and atmospheric attack).
- Parking decks, ramps and garages.
- Preventive maintenance of all reinforced concrete commercial and civil engineered structures.
- Concrete piers, dams, offshore platforms, piles, pillars, pipe and utility poles.
- Restoration and repair of all reinforced concrete commercial and civil engineered structures.
- Buildings and foundations of all types.
- Cooling towers and portable water tanks.

FEATURES AND BENEFITS

- **Offers engineers, owners, contractors and government authorities a time proven corrosion inhibiting technology that will extend the life of all reinforced concrete structures.**
- **Protects against the harmful effects of corrosion by migrating into even the densest concrete.**
- **The migratory inhibitor stops further corrosion of the most rusted metals.**
- **Easily applied by spray, roller, squeegee or paint brush to any concrete surface, reducing the high cost of labor and equipment.**
- **Does not contain any calcium nitrite.**
- **Water-based and non-flammable for easy handling.**
- **Does not require the removal of sound concrete.**
- **Organic, safe and environmentally friendly.**
- **Enhances the durability of reinforced concrete.**
- **Lab and field tested worldwide.**
- **Concentrated for cost effectiveness on all projects.**
- **Allows concrete to breathe and vapour to diffuse - is not a vapour barrier.**
- **Protects both anodic and cathodic areas.**
- **Proven effective in the Strategic Highway Research Program (SHRP) funded by the US**

Federal government.

- **Classified to NSF Standard 61 by Underwriters Laboratories.**
- **Confirmed effective in internationally documented field evaluation (ASTM G-109, JIS, Korean, etc).**
- **Proven to migrate to adjacent areas to protect surrounding metals.**
- **No cure time is required. Traffic may resume minutes after application if necessary.**

PROPERTIES

<i>Specific gravity:</i>	1.03 – 1.05
<i>Appearance:</i>	Clear amber
<i>Flash Point:</i>	N/A (Water based)
<i>Shelf Life:</i>	24 months in a sealed drum
<i>pH:</i>	9.0 – 9.7

ESTIMATING DATA

3.68m²/l, dense substrates may require 2 coats at the rate of 5.52m²/l.

Surface Preparation

Surface should be dry, sound, clean and free of all dirt, oil, grease efflorescence, sealers, coatings, membranes and asphalt. Cleaning may be done by steam cleaning, waterblasting or sandblasting.

APPLICATION

Apply **MCI-2020** by spray (conventional airless or hand pressure spray equipment), roller, squeegee or paint brush to any concrete surface. Dense substrates may require two coats with a minimum of 7½ hours between coats. When applying a sealer, coating, repair mortar or concrete overlay, the surface should be rinsed with water, pressure washed or blastcleaned to remove any residue.

PACKAGING

19 litre pails and 208 litre drums.

PRECAUTIONS

The substrate and ambient temperature should be above freezing. Do not apply if temperature is expected to fall below freezing within 12 hours. MCI will not penetrate film-forming sealers, coatings, paints, membranes or asphalt.

For full safety directions, please refer to MBT Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MBT publication is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided, does not constitute supervisory responsibility. Suggestions made by MBT either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MBT (Australia) are responsible for carrying out procedures appropriate to a specific application.

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