

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI®-2120 Concentrate MBT



PRODUCT DESCRIPTION

MCI®-2120 Concentrate MBT is a surface-applied corrosion inhibitor designed to migrate through even the densest concrete structures and seek out steel reinforcing bars embedded in concrete. MCI®-2120 Concentrate MBT also protects a multitude of other metals, including carbon steel and aluminum. MCI®-2120 Concentrate MBT provides effective protection to reinforcing steel due to enhanced film-forming properties. MCI®-2120 Concentrate MBT reduces further corrosion on reinforcing metals and extends the service life of the structure.

WHERE TO USE

MCI®-2120 Concentrate MBT is recommended for:

- All reinforced, precast, prestressed, post-tensioned or marine concrete structures
- Steel reinforced concrete bridges, highways and streets exposed to corrosion 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, pipes and utility poles
- Restoration and repair of all reinforced concrete commercial and civil engineered structures
- Buildings and foundations of all types

ADVANTAGES

- Offers engineers, owners, contractors, DOTs and government agencies a time-proven corrosion inhibiting technology that will extend the life of all reinforced concrete structures in high concentration of chloride
- Protects against the harmful effects of corrosion by migrating into even the densest concrete
- Protection properties do not depend on chloride concentration level
- Provides some sealing properties to concrete
- The migratory inhibitor reduces active corrosion of metals in high chloride environments
- Easily applied by spray, roller, squeegee or paint brush to any concrete surface, reducing the high cost of labor and equipment
- Does not contain calcium nitrite
- Non-flammable, water-based for easy handling
- Does not require the removal of sound concrete
- Organic, safe and environmentally friendly
- Enhances the durability of reinforced concrete
- Concentrated for cost effectiveness on all projects
- Allows concrete to “breathe” and vapor to diffuse, is not a vapor barrier
- Protects both anodic and cathodic areas
- Proven to migrate to adjacent areas to protect surrounding metals
- No cure time is required - traffic may resume minutes after application if necessary
- NSF Standard 61 approved for potable water applications (certified by Underwriters Laboratories)
- Also available in ready-to-use version
- UV tracers and fugitive dyes can be added to show proper application

COVERAGE (After dilution)

Coverage is 150 ft²/gal (3.7 m²/l). Dense substrates may require 2 coats at the rate of 300 ft²/gal (7.4 m²/l).

MIXING INSTRUCTIONS

Mix 1 part MCI[®]-2120 Concentrate MBT to 3 parts water at ambient temperature. Mix at low to medium speed until fully blended.

PHYSICAL PROPERTIES

Appearance	Clear to slightly yellow to amber
pH	9.5-10.5 (1% aqueous)
Specific Gravity	8.9-9.2 lbs/gal (1.07-1.10 kg/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, water-blasting or sandblasting.

APPLICATION

Apply MCI[®]-2120 Concentrate MBT by spray (conventional airless or hand pressure spray equipment), roller, squeegee or paint brush to any concrete surface. Dense substrates may require two (2) 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 blast-cleaned to remove any residue.

LIMITATIONS

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.

PACKAGING AND STORAGE

MCI[®]-2120 Concentrate MBT is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Keep from freezing. Shelf life is 24 months in a sealed drum.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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