

# MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



## MCI®-2020 Gel



### PRODUCT DESCRIPTION

MCI®-2020 gel is an injectable form of corrosion inhibitor, which uses chemistry similar to Cortec's MCI-2020 surface treatment. Utilizing amine carboxylate technology, it offers the time-proven Migrating Corrosion Inhibitor (MCI®) for corrosion protection of reinforcing steel and other metals in concrete. MCI®-2020 Gel releases a vapor into the concrete that migrates, seeks out and adsorbs onto metals, stopping further corrosion and extending the service life of the structure.

### WHERE TO USE

MCI®-2020 Gel is recommended for:

- Steel-reinforced concrete bridges, exposed to corrosive environments (carbonation, deicing salts and atmospheric attack)
- Parking decks, ramps and garages
- All reinforced marine concrete structures and dams
- Concrete piers, piles, and pillars
- Balconies, decks, retaining walls, and lanais
- Concrete equipment bases
- Structural walls, below grade tunnels and structures
- All reinforced concrete commercial and civil engineered structures

### ADVANTAGES

- Offers engineers, owners, contractors, DOTs and government agencies a unique opportunity for corrosion protection that will extend the life of all reinforced

- concrete structures
- Protects against the harmful effects of corrosion even in the densest concrete
- Required dosage is not affected by chloride concentration
- Economical to install and maintain
- Organic, safe and environmentally friendly
- Non-flammable, non-combustible
- Concentrated for cost effectiveness on all projects
- Protects both anodic and cathodic areas
- Will migrate to adjacent areas to protect surrounding metals
- Effective against corrosives such as salts, sulfur and nitrogen oxides
- Solves corrosion problems in areas where surface corrosion treatments cannot be used

### ESTIMATED HOLES FILLED

	5 gal (19 Liters)	55 gal (208 Liters)	10.3 oz Tubes (0.304 Liters)
3/4"x2" (1.9x5.1 cm)	1307	14379	20
3/4"x3" (1.9x7.6 cm)	871	9586	13
3/4"x4" (1.9x10.2 cm)	654	7190	10
3/4"x5" (1.9x12.7 cm)	523	5752	8
3/4"x6" (1.9x15.2 cm)	436	4793	7
3/4"x7" (1.9x17.8 cm)	373	4108	6
3/4"x8" (1.9x20.3 cm)	327	3595	5
3/4"x9" (1.9x22.9 cm)	290	3195	5
3/4"x10" (1.9x25.4 cm)	261	2876	4



**CORTEC**  
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Environmentally Safe VpCI™/MCI® Technologies

## APPLICATION

MCI®-2020 Gel is injected into predrilled 3/4" (1.9 cm) diameter holes by a hand-held caulking gun or power inductor plate bulk pump, to the level at which the patch will be placed.

## APPLICATION CHART

Conventional bridges and parking ramps using standard concrete mix designs specifications similar to ASTM C 1439 should follow this application chart. The depth of the core drilled should equal the depth of reinforcement to be protected.

2"	(5.1 cm),	approx. 18"	(45.7 cm) apart
3"	(7.6 cm),	approx. 22"	(55.9 cm) apart
4"	(10.2 cm),	approx. 25"	(63.5 cm) apart
5"	(12.7 cm),	approx. 28"	(71.1 cm) apart
6"	(15.2 cm),	approx. 30"	(76.2 cm) apart
7"	(17.8 cm),	approx. 33"	(83.8 cm) apart
8"	(20.3 cm),	approx. 35"	(88.9 cm) apart
9"	(22.9 cm),	approx. 37"	(94.0 cm) apart
10"	(25.4 cm),	approx. 39"	(99.1 cm) apart

Note: MCI® corrosion protection starts within a few weeks of installation. The integrity of the structure should be checked by a qualified structural engineer. Placement patterns should be verified by this engineer. Additional spalling of concrete may take place after installation of MCI® due to prior corrosion activity even though corrosion protection by the MCI® has started to work.

## 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**

## TYPICAL PROPERTIES

Appearance	Opaque yellow gel
Shelf Life	24 months in a sealed drum
pH	8.5-9.0 (10% water)
Non-volatile Content	22-24%
Density	8.6-9.1 lb/gal (1.03-1.09 kg/l)

## PACKAGING AND STORAGE

MCI®-2020 Gel is available in 10.3 oz. (304 mL) caulking tubes, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

Store in tightly closed containers.

## LIMITED WARRANTY

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