

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI®-2005 Gel



PRODUCT DESCRIPTION

MCI®-2005 Gel utilizes MCI®-2005 admixture chemistry in a gel format for injection into cracks and cores in concrete. MCI®-2005 Gel is designed to get MCI® molecules closer to embedded reinforcing steel to provide corrosion protection more quickly than surface applied products. It offers the time-proven Migrating Corrosion Inhibitor (MCI®) technology for corrosion protection of reinforcing steel and metals in concrete. MCI®-2005 Gel releases a vapor into the concrete that migrates, seeks out and coats reinforcing steel and metals, stopping further corrosion and extending the service life of the structure.

WHERE TO USE

MCI®-2005 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
- 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 APPLICATION CHART

	5 gal (19 Liters)	55 gal (208 Liters)	13 oz Tubes (0.384 Liters)
3/4"x2" (1.9x5.1 cm)	1307	14379	27
3/4"x3" (1.9x7.6 cm)	871	9586	18
3/4"x4" (1.9x10.2 cm)	654	7190	13
3/4"x5" (1.9x12.7 cm)	523	5752	11
3/4"x6" (1.9x15.2 cm)	436	4793	9
3/4"x7" (1.9x17.8 cm)	373	4108	8
3/4"x8" (1.9x20.3 cm)	327	3595	7
3/4"x9" (1.9x22.9 cm)	290	3195	6
3/4"x10" (1.9x25.4 cm)	261	2876	5



CORTEC
CORPORATION

Environmentally Safe VpCI™/MCI® Technologies

APPLICATION

MCI®-2005 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	Dark brown gel
Flash Point	>202°F (100°C)
Shelf Life	12 months in a sealed container
Non-volatile Content	65-75%
Density	10.0-11.0 lb/gal (1.20-1.32 kg/l)

PACKAGING

MCI®-2005 Gel is available in 13 oz. (384 mL) caulking tubes, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

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