

PRODUCT NAME

Gem-Gard™ MCI

Migrating Corrosion Inhibitor Coating



MANUFACTURER

Gemite® Products Inc.

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FEATURES

- Effective on cathodic and anodic sites
- Applied to concrete surface
- Migrates through concrete
- Environmentally safe
- Water borne material
- Extends the life of reinforced concrete structure
- Migrates through concrete to provide protection.
- Will prevent further corrosion of reinforcement
- Extends the service life of the structure.
- Migrating corrosion inhibitor stops further corrosion of rusted metal
- Easily applied by spray, roller, squeegee or brush
- Low labor and equipment costs
- Water-based and nonflammable
- Environmentally friendly
- Does not contain calcium nitrite
- Highly “breathable”, it is not a vapor barrier
- No “cure” time
- Traffic may resume shortly after application

PRODUCT DESCRIPTION

Basic Use

Gem-Gard MCI is a corrosion inhibiting coating for concrete. It migrates through concrete structure and becomes attached to reinforcing steel bars or other ferrous metal present in concrete.

Gem-Gard MCI is recommended for reinforced, precast, prestressed, post-tensioned or marine concrete structures, reinforced concrete bridges or any reinforced concrete structure exposed to carbonation, deicing salts and acid rain. Other important examples of use include parking decks, ramps and garages, concrete piers, piles, pillars, pipe and utility poles.

Composition and Materials

Gem-Gard MCI is based on organic amines. It is supplied as clear amber liquid .

Limitations

The substrate and the ambient temperature at the time of the application must be above the freezing. Do not apply if the temperature is expected to fall below freezing within 12 hours after application. *Gem-Gard MCI* is not effective when

applied over surfaces coated with sealers, coatings or membranes.

Health and Safety

Gem-Gard MCI is an alkaline material. May be harmful if swallowed. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if digested. Keep product out of reach of children. FOR INDUSTRIAL USE ONLY. Consult MSDS for additional information. Wash thoroughly after handling. Do not take internally.

Coverage

3.6 - 5.7 m²/L (148 - 233 ft²/USG).

Packaging

Gem-Gard MCI is supplied in 4 L (1.06 USG) bottles or 10 L (2.64 USG) bottles. Storage at room temperature is recommended.

Storage and Transportation

Gem-Gard MCI when stored on pallets in a cool area has a shelf-life of 12 months. Product must not freeze. Packaged 100 - 4 L bottles or 60 - 10 L bottles per pallet.

TECHNICAL DATA

pH	9.0-9.5	
Specific Gravity	1.03 - 1.05 g/cm ³	8.6 - 8.7 lbs/USG
Flash Point	N.A. (water based)	
Active Material	organic amine	
Appearance	Clear Amber Liquid	

INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed.

Surface Preparation

Concrete surface must be dry, sound, clean and free of oil, dust, grease, efflorescence, sealers, coatings, asphalt and membranes. Clean the concrete surfaces using shotblasting, wet or dry sandblasting or a high pressure waterblasting.

Application

Use conventional low pressure hand sprayer, roller, squeegee or brushes. Dense concrete substrates may require two coats. The minimum drying time between the coats should be 8 hours. When applying toppings, coatings or sealer over *Gem-Gard MCI*, the surface should pressure washed or light sandblasted to remove any residue.

AVAILABILITY AND COST

Gem-Gard MCI is available worldwide. Contact the manufacturer for the name of the nearest Representative/Distributor and pricing information.

MAINTENANCE

None required.

WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Gemite's Head Office.

TECHNICAL SERVICE

For advice on suitability of *Gem-Gard MCI* for a specific application, specification assistance and application instructions, contact Technical Service: USA at 888-443-6483 in Canada at 905-672-2020.

Short Specification

The migrating corrosion inhibitor coating will be *Gem-Gard MCI*, manufactured by Gemite Products Inc., [USA, 888-443-6483] or [Canada, 905-672-2020]. It will meet the all the Technical Data specified in the current *Gem-Gard MCI* Product Data Sheet.