

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI Grenades[®], Patented Metric MCI Grenades[®], Patented



PRODUCT DESCRIPTION

MCI Grenades consist of Migrating Corrosion Inhibitors (MCI) packaged in water-soluble PVA bags. MCI Grenades are very convenient to use and come in two sizes for easy dosing. One 500g MCI Grenade per 1 cubic yard or one 650g Metric MCI Grenade per 1 cubic meter provides excellent protection to steel reinforcement.

MCI Grenades dissolve easily when in contact with water in the concrete mix. During mixing the bag will completely dissolve and the MCI compounds will begin to disperse into the mix.

The MCIs protect reinforcing steel, galvanized steel, and other metals embedded in concrete from corrosion induced by carbonation, chloride, and atmospheric attack. When incorporated into the concrete mix, the MCIs form a corrosion inhibiting protective layer on metals. When used with repair mortars and grouts, MCIs will migrate toward the rebars providing effective corrosion protection.

WHERE TO USE

MCI Grenades are 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
- Concrete piers, piles, pillars, pipes, and utility poles
- Restoration and repair of all reinforced concrete commercial and civil engineered structures

ADVANTAGES

- Offers engineers, owners, contractors, DOTs, and government agencies a time proven corrosion inhibiting technology that will extend the life of reinforced concrete structures
- Protects against the harmful effects of corrosion even in the densest concrete
- Does not affect the air entrainment, compressive strength, or the set time of concrete mix
- Required dosage is not affected by chloride concentration
- Does not contain calcium nitrite
- Non-flammable and environmentally friendly
- Lab and field tested
- Concentrated for cost effectiveness on all projects
- Will migrate to adjacent areas to protect surrounding metals



APPLICATION

MCI Grenades can be added to concrete at the ready-mix plant, directly to the ready-mix truck drum or to portable mixers. For best results add the MCI Grenades to the mix water before the addition of the cementitious materials. Allow the bag and the powder to dissolve prior to addition of the other components. Continue adding cementitious materials and mix as directed by manufacturer / supplier.

MCI Grenades can be post added to mixing concrete as long as they dissolve and a uniform mix is achieved.

DOSAGE

Add to concrete mix, repair mortar, or grout at one MCI Grenade per 1 cubic yard of concrete mix or one Metric MCI Grenade per 1 cubic meter of concrete mix.

PACKAGING

MCI Grenades are packaged 20 bags (500g each) per box.

Metric MCI Grenades are packaged 20 bags (650g each) per box.

Please specify which size is needed when ordering.

TYPICAL PROPERTIES

Appearance	White to off-white powder packed in a PVA bag
Shelf Life	12 months in a sealed box

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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