

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI Grenades® , Patented MCI Mini Grenades®



PRODUCT DESCRIPTION

MCI Grenades® consist of Migrating Corrosion Inhibitors™ packaged in water-soluble PVA bags. A MCI Grenade is very convenient to use. One 500g bag per 1 cubic yard or one 650g MCI Metric Grenade® bag per 1 cubic meter provides excellent protection to steel reinforcement.

The MCI Mini Grenade® is ideal for repair mortars-- one Mini Grenade® protects 0.4-0.6 cubic feet or 0.015 cubic meters.

The bag dissolves easily when in contact with water in the concrete mix. After approximately 2 minutes of mixing, the bag will completely dissolve and the MCI® compounds will disperse in the mix.

The MCI®s 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 MCI®s form a corrosion inhibiting protective layer on metals. When used with repair mortars and grouts, MCI®s 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. Mix concrete thoroughly for at least 15 minutes after PVA bag is dissolved to disperse the MCI®.

For best results at the batch plant, add the MCI Grenade® to the water before the addition of the cement powder. If on the job site, add the MCI Grenade® in the portable mix along with the water prior to the addition of the cement, sand or aggregate. Allow the bag and the powder to dissolve prior to addition of the other components.

NOTE: MCI Mini Grenades® can be mixed in single unit repair mortar systems for three minutes.

DOSAGE

Add to concrete mix, repair mortar or grout at one bag (500 g) per 1 cubic yard/one bag (650 g) per 1 cubic meter.

Add one Mini Grenade (10 g) per 0.5 cubic feet/ 0.015 cubic meter.

PACKAGING

MCI Grenades® are packaged 20 bags (500g or 650g) per box.

Mini Grenades are packaged 100 10g-bags per box.

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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