

# MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



## Mini MCI Grenades® , Patented



### WHERE TO USE

Mini 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

### PRODUCT DESCRIPTION

Mini MCI Grenades consist of Migrating Corrosion Inhibitors (MCI®) packaged in water-soluble PVA bags. Mini MCI Grenades are very convenient to use. Mini MCI Grenades are ideal for repair mortars - one Mini Grenade protects 0.4-0.6 ft<sup>3</sup> (0.015 m<sup>3</sup>).

The grenade dissolves 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.

### 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
- Cortec logo on each bag ensures MCI inhibitor is inside

## APPLICATION

Mini 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 Mini 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.

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

## DOSAGE

Add one Mini Grenade (10 g) per 0.5 ft<sup>3</sup>/ 0.015 m<sup>3</sup>.

## PACKAGING

100 Mini Grenades are packaged 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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