MCI®-2006 NS

PRODUCT DESCRIPTION
MCI-2006 NS (normal set) is a powder concrete admixture that protects steel reinforcing, carbon steel, galvanized steel, and other metals embedded in concrete from corrosion induced by carbonation, chloride, and atmospheric attack without changing the set time of most concrete mixes. MCI-2006 NS protects using a time proven migratory corrosion inhibitor function. In addition, it contains a proven contact inhibitor. When incorporated into the concrete mix, Migrating Corrosion Inhibitors (MCI) seek out and form a corrosion inhibiting, protective layer on metals. When used with repair mortars and grouts, MCI-2006 NS will migrate to undisturbed concrete providing effective corrosion protection to rebar already in place.

FEATURES
MCI-2006 NS offers engineers, owners, contractors, DOTs, and government agencies a time-proven corrosion inhibiting technology that will extend the life of all reinforced concrete structures.

• Protects against the harmful effects of corrosion even in the densest concrete
• Dosage rate is independent of expected chloride concentration
• Does not contain any nitrites

• Non-hazardous and non-toxic
• Safe and environmentally friendly
• Technology is lab and field tested worldwide
• Concentrated for cost effectiveness on all projects
• Protects both anodic and cathodic areas
• Will migrate to adjacent areas to protect surrounding metals
• NSF Standard 61 approved for potable water applications (certified by Underwriters Laboratories)

TYPICAL USES
MCI-2006 NS is 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
• All reinforced marine concrete structures
• Concrete piers, piles, pillars, pipes, and utility poles
• Restoration and repair of all reinforced concrete commercial and civil engineered structures
• Can be added either to the water or powder on-site for shotcreting applications
• Can be added into a manufacturer’s repair mortar formulation to enhance its corrosion protection ability

DOSAGE
Add MCI-2006 NS to the concrete mix at a rate of 1 lb/yd³ (0.6 kg/m³).

APPLICATION
MCI-2006 NS can be added to concrete powder at the ready-mix plant, directly into in a ready-mix truck drum or portable mixers. Concrete should be mixed thoroughly.
TYPICAL PROPERTIES
Appearance	 Off-white powder
pH	 11.5-13.0 (1% solution)
Non-volatile Content	 99.5-100%

PACKAGING AND STORAGE
MCI-2006 NS is available in 5 lb (2.3 kg), 50 lb (22.7 kg), and 100 lb (45.4 kg) packages. The shelf life of the product is 24 months in a sealed drum.

ASTM C494 Data For MCI-2006 NS

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<tr>
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<th>Control</th>
<th>MCI 2006 NS</th>
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<tbody>
<tr>
<td>Initial Set (Minutes)</td>
<td>304</td>
<td>365</td>
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<tr>
<td>Final Set (Minutes)</td>
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<td>457</td>
</tr>
<tr>
<td>Length Change (%)</td>
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<td>-0.023</td>
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<tr>
<td>Freeze/Thaw Durability (%)</td>
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Compressive Strength
(Pounds per Square Inch)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>3 Day</td>
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<tr>
<td>1 Year</td>
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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

LIMITED WARRANTY

Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

The foregoing warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or of fitness for a particular purpose. In no case shall Cortec Corporation be liable for incidental or consequential damages.

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