

Construction Forum

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New High Performance Coating System (HPCS)

Cortec's® new MCI® 2026 HPCS is designed for application to concrete floors that are subjected to heavy traffic, chemical spillage, and/or elevated temperatures. It meets USDA guidelines for use in federally inspected poultry and meat plants. MCI 2026 HPCS is available in clear as well as gray color. Please see the enclosed data sheets for MCI 2026 Floor Coating, MCI 2026 Primer, and MCI 2020. Chemical resistance charts for the primer and coating are also included.

Cortec Gains New DOT Approvals!

Cortec MCI products have gained approvals from several state departments of transportation in the last few months. This includes North Carolina, Iowa and Nebraska. Approval certificates are enclosed with the newsletter.

If any of you would like to help us get DOT approvals in your state, please contact Jessi Jackson Meyer at extension 185, or Vanessa Schultz at extension 186.

Upcoming Training and Events:

Cortec will provide sales and product training at our World Headquarters January 13&14, 2003. Training will cover all of Cortec's product lines.

World of Concrete 2003, Las Vegas, Nevada, will be held from February 4-7. Cortec will hold an MCI Meeting on Monday, February 3. The morning session will be for Representatives and Distributors only, and the afternoon session will be open to everyone, including interested engineers and specifiers. If you have someone specific that you would like Cortec to invite to the afternoon session, please contact Vanessa Schultz at extension 186.

MCI Admixtures Outperform Competitor

MCI 2005 NS and MCI 2007 were tested in mortars made with seawater for corrosion resistance. MCI 2007 dosed at 3.2 pints/cubic yard (2 liters/cubic meter) provided 95.5% protection over a control, while MCI 2005 NS dosed at 1.5 pints/cubic yard (0.6 liters/cubic meter) provided 79.9% protection. A competitor calcium nitrite product dosed at 5 gallons per cubic yard (25 l/cubic meter) provided only 72.4% protection versus the control.

The MCI products provided better protection with a lower dosage rate, along with being environmentally safe. See the enclosed comparison sheet for more details on how MCI products are more environmentally and user friendly than our competition!

No Significant Drop-off in Parking Garage Construction Seen for 2002-2003

An article in the May 2002 issue of Parking Today states that the US economy will produce slightly more garage construction starts in 2002-03 than it saw in 1998, according to a report by Dale Denda, Parking Market Research Company. Total starts for this year will be about 385, down slightly from an all-time high of 465 in 2001.

Garages will be larger than they were four years ago, and there has been a shift in the market share by sector of the

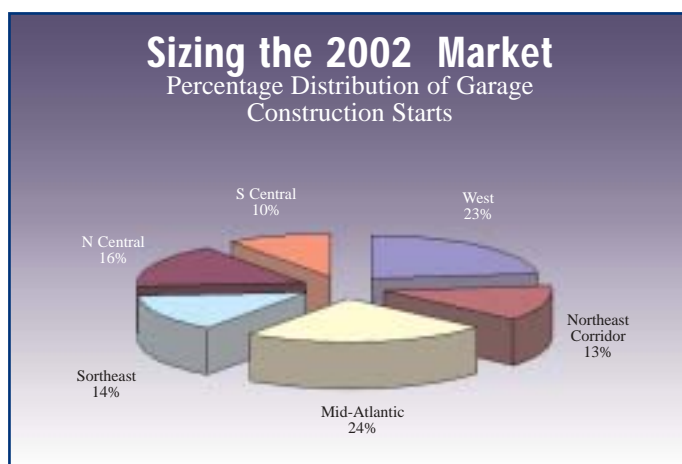


Figure 1: How the market breaks down. The graph shows the percentage of garage starts by geographic area.



industry. The public (non-institutional) sector now accounts for 30% of the 2002 market in garage starts, about twice as much as last year, while the private sector is experiencing a 26% decrease in market share. The airport, higher education, and medical sectors each have increased and now represent 3, 14, and 10 percent, respectively in their relative shares of the market. Garage construction distribution by region can be seen in Figure 1.

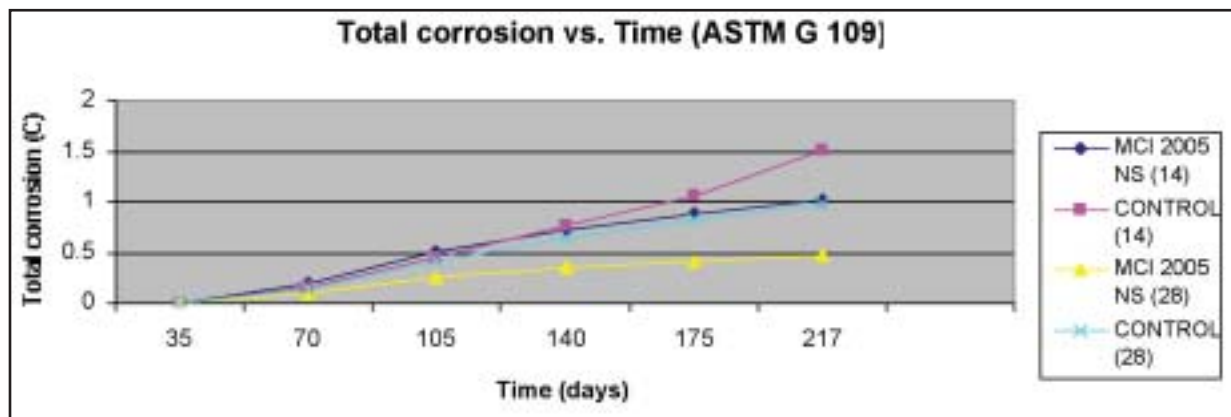
Why is the number of garage starts important? Because they equate to sales in many areas of the industry, including sales of migrating corrosion inhibitors! The shift in market share from the private to the public sector means more attention will be paid to the life-cycle costs of parking garage construction. Adding MCI during the construction of a parking garage can greatly reduce the structure's life-cycle costs, making it a more desirable additive to the concrete mix design. Combine that with our recent Wells Fargo Home Mortgage parking ramp case history and environmentally friendly products, and MCI are a sure sell to new garage construction.

MCI 2005 NS CCIA Test

By: Ivana Liposcak

Migrating corrosion inhibitors can be applied as admixtures to fresh concrete mixes or as topical treatments for existing structures. This article presents the results of studies on MCI 2005 NS applied as an admixture to new concrete. The test procedure used is based on modifications to the ASTM G 109 standard, "Test Method for Determining the Effects of Admixtures on the Corrosion of Embedded Steel Reinforcement in Concrete". Two sets of mortars, each with a control and an MCI 2005 NS treated series, were made. One set was moisture-cured for 14 days, and the other set for 28 days. The specimens are then subjected to a series of wet/dry cycles. Each cycle consists of 3.5% salt solution ponded on the surface for five days, followed by four days of drying.

Current results indicate that the MCI treated samples are doubling the time to the onset corrosion, and once corrosion begins, the rate is at least two-times less than that of the control specimen. Corrosion initiation and rates are also dependent upon the type of curing the specimens received prior to testing.



Visit our website for more information on Migratory Corrosion Inhibitors™ CortecMCI.com



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