EC European Coatings

New non-toxic sealer protects concrete structures from corrosion

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The very small size of the molecules allows a penetration even into the smallest concrete pores and thereby an excellent protection against corrosion for all concrete structures.

New non-toxic and environmentally safe sealer for concrete against corrosion

Source: Roman Milert / Fotolia

"Migrating Corrosion Inhibitor (MCI®)-2019", developed by Cortec Corporation, is a non-toxic, environmentally safe, 40% silane, solvent-based concrete sealer utilizing a revolutionary time-proven technology that has grown to become the industry standard for significantly extending the service life of concrete structures.

Migration even through the densest concrete

The product is able to migrate even through the densest concrete, therefore providing superior protection against the harmful effects of corrosion. It seeks out embedded reinforcement to form a protective monomolecular corrosion inhibiting layer on the steel. The migratory inhibitor reduces further corrosion and increases surface abrasion resistance.

Intrusion of chloride and carbonation

Treated substrates are hydrophobic and retain their original appearance. By sealing surface pores, the product blocks the intrusion of carbonation and chloride ions and helps to protect against acidic attack. It does not contain nitrites, phosphates or chromates.

Treated concrete surfaces remain fully breathable and their natural moisture-vapor transmission is not affected. An alkaline environment such as new concrete will catalyze the reaction and speed the formation of the hydrophobic surface.

A corrosion inhibiting technology for a multitude of users

The product offers engineers, owners, contractors, DOTs and government agencies a time proven corrosion inhibiting technology that will extend the life of all reinforced concrete structures such as commercial buildings, parking decks, garages, highways and bridge structures.

Easy and cost-efficient application

The technology is easily applied to concrete by spray, roller or squeegee reducing the high costs of labor and equipment.