

Project Profile - Buildings & Commercial Construction

PROJECT

Citygaraget, Stockholm, Sweden

SUMMARY

Chloride protection using a Migratory Corrosion Inhibitor on 3,500m² of concrete deck

PRODUCTS

Cemprotec MCI® 2020

CLIENT

Catella Swedebroker

CONTRACTOR

Esgard Inc. AB

BACKGROUND ►

Following tests carried out by the Swedish Concrete Institute (CBI), it was found that the concrete deck in one of the central Stockholm car parks contained a high level of chlorides caused by deposits of de-icing salts from the vehicles.

Especially where cracks were visible, the threat of corrosion of the steel reinforcement was such that urgent remedial action was needed.

THE SOLUTION ►

Cemprotec MCI® 2020, a clear, organic, water-based coating was applied to the entire deck. Suitable for new and existing structures, **MCI® 2020** is proven to reduce chloride initiated corrosion. **MCI® 2020** forms a protective monomolecular layer on steel reinforcement which it seeks out as it migrates through concrete, thus inhibiting further attack and neutralising existing corrosion currents. **Cemprotec MCI® 2020** is effective in extending the service life of structures which are vulnerable to chloride attack. **MCI® 2020** is applied in just one or two coats to allow for economic application. Compatible with surface coatings, a decorative epoxy was used in this case.



FM 41091
EMS 597350
OHS 597351

Quality
Environmental
Health & Safety

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