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CASE HISTORY

Stav Street Residential Building Restoration

CONTRACTOR

R Shiler Marble Tightening

LOCATION

Hod Hasharon, Israel

PRODUCTS

MCI®-2020 Gel

Problem: Stone cladding tiles began detaching and falling off a residential building only five years after its construction. The cause of the damage was diagnosed as corrosion of the building's concrete reinforcement and cladding anchors. After seven years of legal litigation (12 years from construction), it was ruled that restoration should include drilling and injection of MCI®-2020 Gel corrosion inhibitors.

Application:

The wobbling and cracked cladding tiles were removed first. MCI®-2020 Gel was injected into holes drilled through the cladding, and the holes were capped with cementitious mortar. All corroded anchors and stains were drilled out and filled with repair mortar. All tiles were re-anchored by new screws. To minimize the change in surface appearance, drilling locations were masked using caps prepared from the original cracked tiles.



MIGRATING CORROSION INHIBITORS
FROM GREY TO GREEN

Conclusion:

The reconstruction project was deemed very successful. Six months after application, a test was performed that verified the presence of corrosion inhibitor throughout the concrete. Five years after application, a visual survey showed no appearance of new corrosion stains. The project was deemed very successful, and additional projects of a similar nature have since been completed in Israel.

