

GEM (GREENLIFE EAST MARKHAM)

CONDOMINIUM DEVELOPMENT BY DEL RIDGE HOMES

JOB DETAILS:

MARKET:

Property Management

PRODUCT:

StonDeck FD2 - Stalls

StonDeck XD2 - Drive Lanes

StonDeck XD3 - Ramps

AREA:

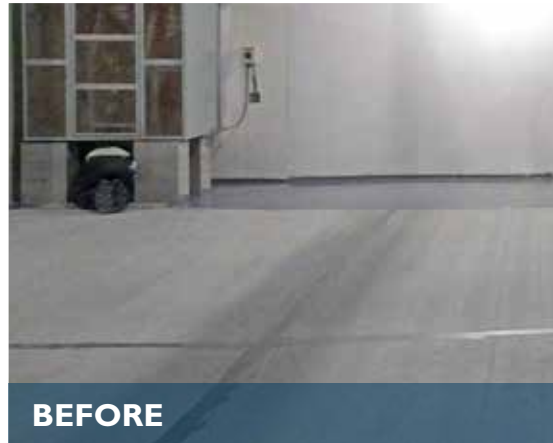
Underground Parking Garage

SQUARE FOOTAGE:

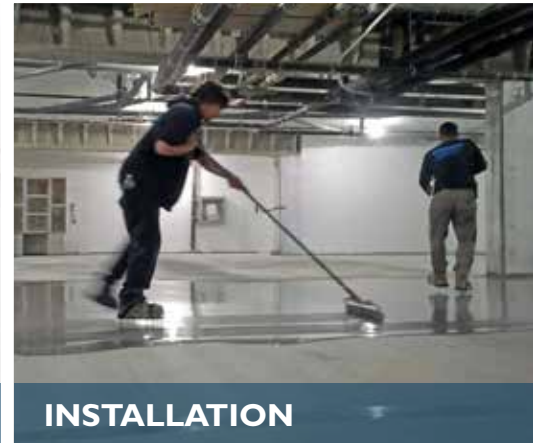
55,000 Square Feet

LOCATION:

Markham, Ontario



BEFORE



INSTALLATION



AFTER



AFTER

GEM is an ecologically friendly condominium development in the heart of Markham and is targeting "Net Zero" which is defined as a building with net zero carbon emissions annually. To achieve these goals, the development will incorporate a solar photovoltaic array to capture a significant proportion of the buildings energy consumption, communal electric vehicles and Greenlife Woods in association with Forests Ontario to plant 140,000 trees (317 per Condo unit).

THE CHALLENGE

GEM incorporates two levels of parking below the building. Due to construction scheduling, the parking levels were installed during November/December. The basement levels, which incorporate the parking deck, are constructed using hollow core precast concrete panels with concrete toppings, laid onto structural concrete columns, shear walls and steel beams, many of which were insulated to reduce energy consumption.

With exterior temperatures well below freezing, Del Ridge Construction provided heat to ensure that the challenging schedule of completion on December 22nd could be achieved. Stonhard provided StonDeck Membrane Systems for the suspended slabs to approximately 55,000ft².

THE SOLUTION

StonDeck is a solvent free parking deck waterproofing system, available in a number of grades to suite traffic density and durability. This engineered approach allowed Stonhard to tailor application to achieve maximum durability and cost-efficiency for this prestigious development.

Stonhard prepared the concrete surfaces using our in-house Blastrac crew and detailed all joints and cracks with polyurethane caulking and StonDeck Membrane prior to application of the StonDeck Waterproofing systems.

The parking decks are configured with the stalls contained between shear walls and the drive lanes, turning areas and connecting ramps running between, as such we were able to offer a bespoke deck waterproofing solution based on StonDeck FD2 for the stalls, XD2 for the drive lanes and XD3 for internal ramps.

The StonDeck installation was delivered on time and on budget.