

**Project:**

Renovation of the Nile Ritz  
Carlton Hotel

**Location:**

Cairo

**Project completion:**

2014

**Owner/s:**

Misr Hotels Company

**Main Contractor:**

JV Orascom Construction & Arab  
Contractor - Repair unit

**Repair Applicator:**

- Arab Contractor – Bridge Sector  
(Repair unit)
- El Galy (Eng. Adel Galy)
- A Build
- Best Solution

**The Civil Consultant:**

ECO (Dr. Ali Abd el Rahman)

**Architecture Consultant**

EHAF

**MASTER BUILDERS**

**SOLUTIONS System used:**

FRP Strengthening System  
Repair system (MasterEmaco  
Range)

Waterproofing system

(MasterSeal 930 for Pile Cap &

Damp proofing for Foundation  
(MasterSeal 622)

Finishing system

## Nile Ritz Carlton Hotel



### The background

This hotel, formerly operated as Nile Hilton hotel, has been operating since 1959 and is an iconic landmark of Cairo skyline. The 13-story hotel, which is 64,000 square meters (689,000 square feet), is being renovated to modernize the facility and to meet the modified design and specifications of the Ritz Carlton brand.

The project aim to replacing and renovating all the hotel operating systems of the rooms, ballroom and 7 other rooms for meetings and conferences, kitchens, laundries and boilers as well as the systems of air conditions and elevators. This is beside the telephones systems, alarms, firefighting and ensuring the hotel according to the highest international standards and specifications.

### The challenge

- The major structural problems of the hotel originate from tensile stresses which occur at different areas on the building due to the usage change of each floor than which it was designed before.
- A new construction for the hotel main swimming pool
- All the ducts & AC opening changes according to the electro-mechanical design change
- Special need for waterproofing system in combination with tiling system for cement board.





## Our solution

For strengthening system

The MBrace FRP composite strengthening system is the Ideal solution for this case as it's provide a high tensile strength and excellent for supplemental flexural and shear reinforcement of concrete slabs and beams.

For repair system

Using the MasterEmaco Range ( MasterEmaco S488 , MasterEmaco S466) and shot Crete system (Shot patch 10) for the big area is the ideal solution for getting non shrinkage repairing material with high strength achieving the site requested workability and conditions

For waterproofing system

Using Thoro Range (Thoroseal Acryl 60) for waterproofing of cement boards in Wet areas.

For finishing system

Using MASTER BUILDERS SOLUTIONS tiling system, for more than 20,000.00m2.

Using Damp Proofing MasterSeal 622 for all Foundations & applying MasterSeal 930 for Pile Caps

## Customers Benefit

The client was satisfied with the performance of MASTER BUILDERS SOLUTIONS products, as per the many contractors

work in the project the main common item with them is using MASTER BUILDERS SOLUTIONS product in all ranges

## Project used Material & Quantity:

- MasterProtect 2020 (10 ton)
- Mbrace 4000 (1500 kg)
- Mbrace Laminte 50x1.2 (4000 LM)
- Mbrace 4500 (500 kg)
- Mbrace Fiber CF120 ( 500 m2)
- Shot patch 10 ( 1000 ton)
- MasterTile 30 (40 Ton).
- Thoroseal Acryl 60 (20 Ton).
- MasterSeal 930 ( 100 Tons )
- MasterSeal940 C-24 ( 500 L.M )



## Master Builders Solutions by MBCC Group

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