

# FIVE PALM JUMEIRAH HOTEL

INSTALLATION OF MARBLE AND CERAMICS IN A NEW HOTEL IN DUBAI



In certain parts of the world, and Dubai is such a place, hotels themselves are one of the attractions and in the city that is now making preparations for the Universal Exposition of 2020, one thing is certain: nobody likes to come second. The city's latest addition, the FIVE Palm Jumeirah Dubai, inaugurated this year, just goes to prove this rule.

This mammoth hotel overlooking the sea has been built on the artificial island of Palm Jumeirah according to a design by the architect firms Yabu Pushelberg and NAO Taniyama and Associates.

The FIVE Palm Jumeirah is located in a strategic position close to the Dubai business quarter and the city's numerous tourist attractions and has features which include its own private beach and three open-air swimming pools, one of which is 60 metres long and runs through the central part of the resort.

It has 477 rooms and suites on 16 floors, all with large spaces and wonderful views of the Arabian Gulf, which are furnished simply yet elegantly with luxurious touches.

The building has large, ceiling-high windows which allow natural light to enter and illuminate the inside of the building.

Most of the internal areas are finished in Italian marble, while

light and dark shades of wood perform light games with the colours of the marble, creating a sense of balance.

## **MAPEI'S CONTRIBUTION**

Mapei made a significant contribution to the construction of this prestigious hotel and the work was carried out at various phases of its construction. Mapei supplied products to install 150,000 m<sup>2</sup> of marble and ceramics inside the hotel (for the entrance halls, corridors, rooms, bathrooms and balconies) and in the large Glass Cube – the heart and symbol of the FIVE hotel.

During the first phase, ULTRABOND ECO 375 adhesive in water dispersion with a high and rapid initial tack and long open time was used for bonding an acoustic insulation mat to the screed to reduce the transfer of sound between floors.

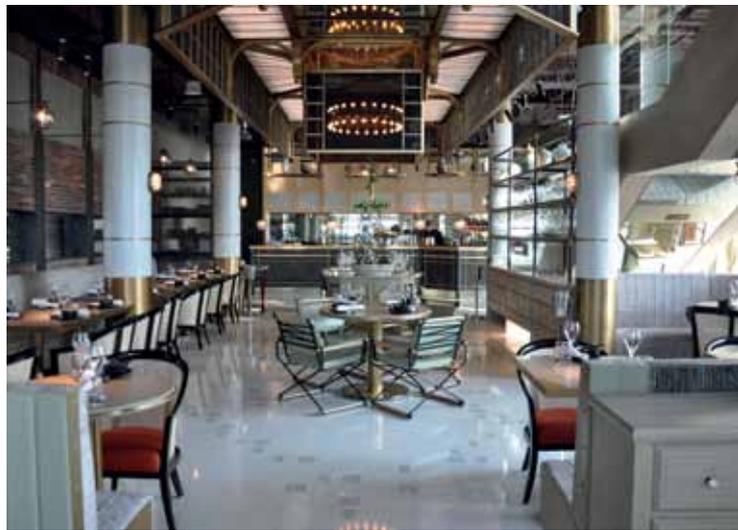
ADESILEX P9 a high performance, non-slip cementitious adhesive with extended open time was used to install the ceramic tiles.

The slabs of marble were installed with KERAFLEX MAXI S1, a white coloured, high performance, non-slip cementitious adhesive with extended open time for ceramic and stone material.



**FACING PAGE.** The FIVE Palm Jumeirah Hotel in Dubai. For this hotel, Mapei products have been used to install marble and ceramic floorings.  
**ON THIS PAGE.** ADESILEX P9 has been used to bond ceramic tiles in the internal areas.

## PROJECTS INSTALLATION OF MARBLE AND CERAMICS



The movement joints between the natural stone were sealed with MAPESIL LM, a mould-resistant, neutral silicone sealant. MAPESIL AC was used to seal the movement joints in the ceramic tiling.

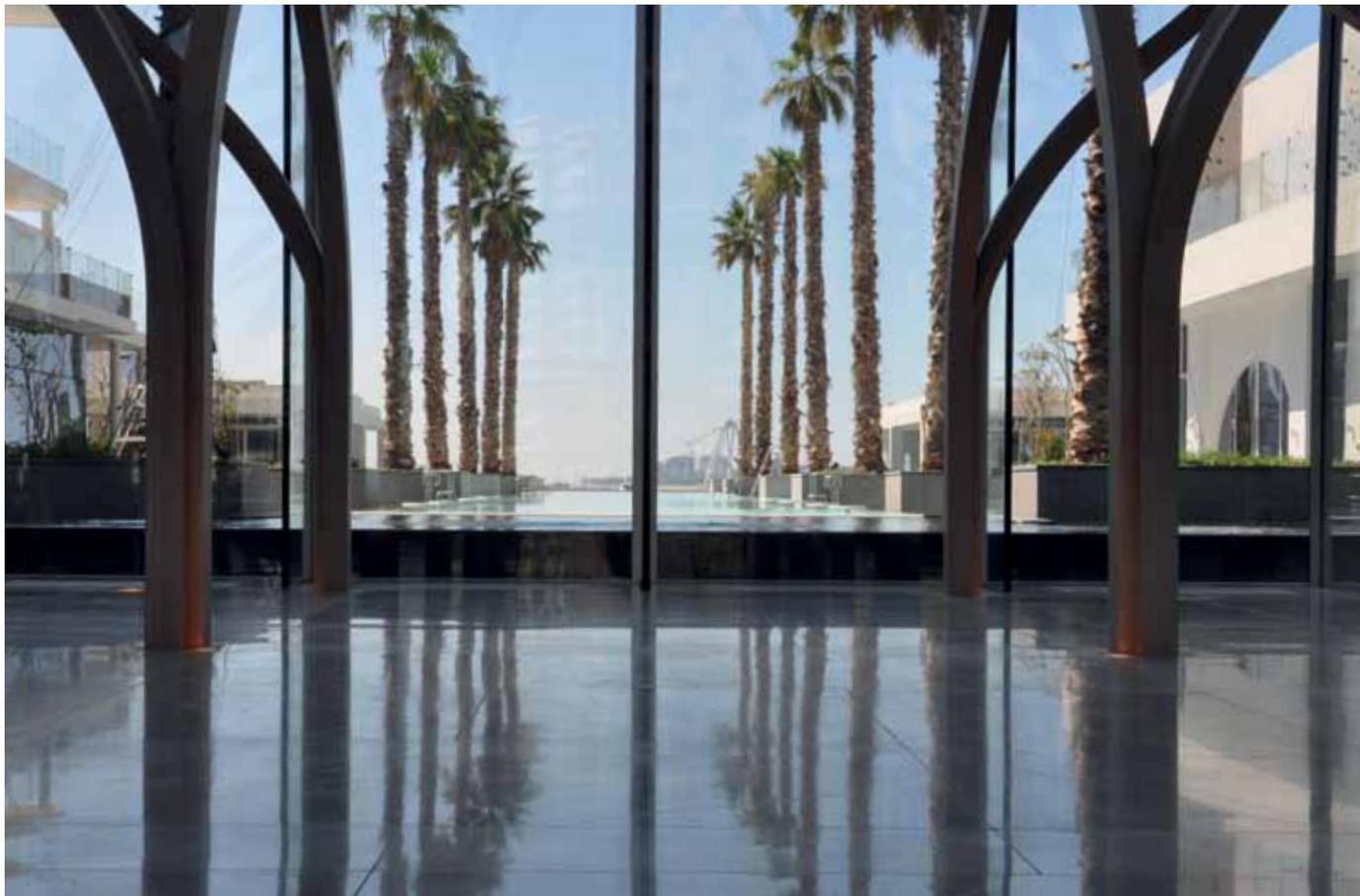
The tiles in areas exposed to heavy traffic were grouted with KERAPOXY two-component, acid-resistant epoxy mortar, designed for grout lines at least 3 mm wide, which can also be used as adhesive.

ULTRACOLOR PLUS, a high-performance, anti-efflorescence, quick setting and drying, water-repellent and anti-mould grout

was used for the tiling in all other areas.

A highly successful, eco-sustainable system was proposed by Mapei engineers for the Glass Cube's raised flooring, below which pass electric cables and ventilation systems. The products were chosen by taking into consideration the difference in temperature between the lower part of the cube, which is hotter, and the upper part of the structure where it gets cooler, as well as to allow for installation of large-format artificial stone tiles on top of the raised floor system.

MAPELASTIC SMART, a two-component cementitious mortar





with high elasticity, was used to protect the plywood boards and the flooring against rising damp.

ECO PRIM GRIP, a multi-purpose, synthetic resin-based adhesion promoter with selected inert materials and very low VOC, was used to facilitate application of ULTRAPLAN FIBER KIT self-levelling, fibre-reinforced, ultra rapid-hardening smoothing compound, which is distributed in the UAE, on the upper part of the plywood boards.

To complete this system, KERALASTIC T, a two-component, high performance polyurethane adhesive was used to bond soundproofing panels and to install large-format slabs of artificial marble on to the prepared sub floor.

Last, but not least, ULTRATOP, ultra-fast setting, self-levelling mortar based on special hydraulic binders for abrasion-resistant flooring, thickness from 5 to 40 mm was installed as a finished floor for Maiden Shanghai Chinese restaurant.

ULTRATOP was selected for its ability to create a range of designs as well as for its durability.

Enjoy the view of this spectacular venue!



**LEFT.** The ceramic tiles have been bonded with ADESILEX P9, while KERAFLEX MAXI S1 has been chosen for the marble.

**ABOVE.** One of the swimming pools of the hotel, running through the central part of the resort.

**ON THE OTHER PAGE.** The internal areas inside the Glass Cube and the Maiden Shanghai Chinese restaurant.

## IN THE SPOTLIGHT

### KERALASTIC T

Two-component, high-performance, polyurethane adhesives for ceramic tiles and stone material. Once mixed, KERALASTIC T forms a special paste which has good workability, excellent durability and resistance to ageing and which hardens without shrinkage.

KERALASTIC T is highly thixotropic: it can be applied vertically without slump and without letting even heavy or large tiles slip. The slipping strength is in compliance with EN 1308.



## TECHNICAL DATA

**FIVE Palm Jumeirah Hotel**, Dubai (UAE)

**Period of construction:** 2014-2016

**Period of intervention by Mapei:** 2015-2016

**Intervention by Mapei:** supply products for the installation of ceramics and of natural stone and Ultratop decorative floor finishing

**Client:** FIVE Holdings LLC

**Project:** Yabu Pushelberg and NAO Taniyama and Associates

**Consultants:** P&T/ECG

**Installer Company:** Ishwar Tiling/Emirates Marble/In Out Concepts

**Mapei Coordinator:** Alia Khawaja (Mapei Construction Chemicals LLC)

## MAPEI PRODUCTS

Substrates preparation: Ultrabond Eco 375, Eco Prim Grip, Ultraplan Fiber Kit\*

Waterproofing: Mapelastic Smart

Installation of ceramics and stone material and grouting: Adesilex P9, Mapesil AC, Mapesil LM, Kerapoxy, Ultracolor Plus, Keralastic T, Keraflex Maxi S1

Finished concrete flooring: Ultratop

\* This product is distributed in the UAE market by Mapei Construction Chemicals LLC

For further information on products see the websites [www.mapei.ae](http://www.mapei.ae) and [www.mapei.com](http://www.mapei.com)