

TRUMP INTERNATIONAL HOTEL AND TOWER

Designed by Skidmore, Owings & Merrill, a skyscraper stands out in the Chicago skyline

Skyscrapers can be overwhelming, and the Trump Tower in Chicago is no exception. Not the largest skyscraper in the world and not even the largest in Chicago (the Sears Tower has that honor), the Trump is nevertheless an unforgettably impressive building of glass, concrete and steel that has carved out its own unique niche in the Chicago skyline. The building is now complete, and the hotel is open and thriving. Apartment owners have also begun to move into the residential tower. Architects from Skidmore, Owings & Merrill, in concert with general contractors Bovis Lend Lease (for the core and shell erection) and McHugh Construction (for interior work), kept Chicago sub contractors hopping as the Trump Tower went up floor by floor. From the construction elevator on the 49th floor during a visit to the jobsite, the most noticeable objects were rows of pallets holding bags of Mapei's NOVOPLAN 2 cementitious self-leveling compound used to level and smooth the concrete substrate

before laying the floor and wall coverings. MAPECEM QUICKPATCH concrete patch was used to repair concrete surfaces in the hallways when needed.

Bathrooms throughout the guest suites in the hotel and various apartments in the residential tower were waterproofed with MAPELASTIC HPG flexible waterproofing and crack-isolation membrane.

The tile installers from Stone Installation and Maintenance, Inc. (SIMI) set the large-format stone floor tiles in the bathrooms and granite slabs in the kitchens with ULTRACONTACT polymer-modified mortar and used ULTRALITE MORTAR lightweight, high performance, multipurpose mortar for the stone tiles on the walls. The SIMI crew grouted the floors with KERACOLOR S high performance, premixed, polymer-modified sanded Portland-cement tile grout and the walls with KERACOLOR U cementitious grout. To accommodate the heavy traffic on the large format tiles in the hotel lobby and residential lobby, SIMI installers used



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the KERABOND+ISOLASTIC mortar system (the latter is distributed in the American market with the name of KERALASTIC) and grouted the tile joints with KERACOLOR S.

The floors in the residential apartments are covered with engineered wood planks. To improve quietness and pri-



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Photo 1.
Outside view of the Trump International Hotel and Tower.



Photo 2.
Marble slabs were laid in several areas of this hotel using the KERABOND+ISOLASTIC system (ISOLASTIC is distributed in the American market with the name of KERALASTIC).

Photo 3.
In the pre-meeting areas carpet flooring was bonded with ULTRABOND ECO 185.

Photo 4.
KERAPOXY 410 epoxy mortar was used to install the porcelain tiles in the pool; the joints were grouted with KERAPOXY grout.

Photo 5.
In the bathrooms ULTRACONTACT was used to bond ceramic tiles in the floors; tile joints were grouted with KERACOLOR S.

Photo 6.
ULTRACONTACT was also used to install granite slabs on the kitchen floors; for laying natural stone slabs on the walls ULTRALITE MORTAR was chosen and joints were grouted with KERACOLOR U.



vacy, the wood floor contractor crew installed about 70,000 m² of sound-proofing membrane, using Mapei's ULTRABOND 980 for a professional bond. In the pre-meeting function rooms, the carpet seems to stretch out forever.

The installers employed a double glue down technique, using ULTRABOND ECO 185 fast-setting adhesive to bond the pad to the floor and ULTRABOND ECO 220 adhesive to bond the carpet to the pad. Wall base was installed with ULTRABOND ECO 575 fast-setting, acrylic-based adhesive. On the 14th floor mezzanine, guests to the hotel can enjoy a luxurious spa. One of the striking features of the spa is the lap pool. This installation presented a special challenge because of its location above occupied areas on the floors below.

The contractors for the pool, J&M Tile, were faced with installing tile over the metal base of the pool. First, the metal shell was installed, then completely filled to ensure that there were no leaks in the framework. Next, the team used KERAPOXY 410 epoxy mortar to install the porcelain tiles in the pool. The joints were grouted with KERAPOXY grout.

One of the most exciting venues in the hotel is the restaurant on the sixteenth floor, aptly named "Sixteen". The large marble slabs in the residential lobby were installed with KERABOND+ISOLASTIC and the joints were grouted with KERACOLOR S. In the lobby elevator areas, the tile was

Mapei Products: the products mentioned in this article (**Novoplan 2, Mapecem Quickpatch, Mapelastick HPG, Ultralite Mortar, Ultracontact, Kerabond+Isolastic** (Isolastic is distributed in the American market with the name of Keralastic), **Keracolor S, Keracolor U, Kerapoxy, Kerapoxy 410, Ultrabond 980, Ultrabond Eco 185, Ultrabond Eco 220, Ultrabond Eco 575**) are manufactured and distributed in the American market by Mapei Corp. (USA). For further information please see the web site www.mapei.com.

TECHNICAL DATA

Trump International Hotel and Tower,
Chicago (USA)

Designer: Skidmore, Owings & Merrill

Period of Construction: first working phase in 2007-2008; work was completed in 2009.

Period of Intervention: 2008-2009

Intervention by Mapei: supplying products for waterproofing substrates in the bathrooms; laying ceramic tiles and natural stone slabs in the bathrooms, kitchens, lobby and lap pool; grouting joints in the same areas; laying wooden floors in the residential apartments; laying textile floors in the pre-meeting rooms

Client: Trump Enterprises

Works Director: Bill Shrimpl

Contractors: McHugh Construction and Bovis Lend Lease

Laying Companies: SIMI, Anderson Interiors, Flooring Resources

Laid Materials: ceramic tiles, natural stone slabs, parquet, textile coverings

Mapei Distributor: Datile Corporation

Mapei Co-ordinator: Steve Cameron, Mapei Corp. (USA)

assembled into intricate patterns to give a signature look to the Trump Tower. KERABOND+ISOLASTIC and KERACOLOR S were also used in these areas.

Work on this grand a scale gives contractors and products suppliers, such as Mapei, the opportunity to show their skills and workmanship in many ways; and that quality can be seen wherever guests and residents look in the Trump International Hotel and Tower. 