

The Burj Khalifa

Dubai, United Arab Emirates

TEAMS:

- ARDEX Middle East
- ARDEX UK

INSTALLER:

- Floortec Arabia Technical Services LLC - Dubai, United Arab Emirates

CONTRACTOR:

- Samsung C&T Engineering & Construction Group - Seocho-Gu Seoul, Korea

ARCHITECTS:

- Skidmore, Owings & Merrill (SOM) - Chicago, IL (USA)
- Holford Associates - Dubai, United Arab Emirates

PRODUCT FEATURED:

- ARDEX ARDITEX NA Latex Sub-Floor Levelling & Smoothing Compound

CHALLENGES:

- Fast-track time line
- Tallest building in the world - 828m (2,716.5 ft.)
- Water not readily available for mixing on upper floors during construction
- Concerns of water spillage during site mixing
- Earlier attempts with competitors products caused wood floors to warp
- Concerns of scarifying the concrete slabs in preparation for Self-Leveling Underlayments up to 186 floors

PROBLEM:

Housing a hotel, residential units, corporate suites, restaurants and many leisure areas; the Burj Khalifa is not only the tallest building in the world, but also a state-of-the-art destination. So when problems arose during the construction, ARDEX Middle East was called upon to provide recommendations and implement a solution. Earlier attempts with competitors' products left this landmark falling short of expectations with wood flooring failures caused by moisture in the concrete underlayment and water spillage during the mixing process.

SOLUTION:

Offering a full guarantee, ARDEX Middle East worked with the ARDEX UK Technical Team to recommend ARDITEX NA Self-Smoothing Compound. This ammonia free formula product is used to level uneven internal sub-floors, creating a smooth surface, by using a pre-formulated additive and not requiring water. ARDITEX NA also saved time because it can be placed over strongly bonded existing adhesive residues and allows floor coverings to be placed after four hours. Time was also saved since the need for water to be transported from the ground up to each level was eliminated.



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