The purpose of this section is to provide a procedure for flood testing a horizontal waterproofing installation having a slope which is not greater than ¼” per foot (19mm per m), or 2% slope. These applications would include shower pans, patios/decks, parking garages, or most slopes to drains in commercial or industrial applications.

Flood testing should be performed prior to installation of any materials on top of the waterproofing membrane or material. Prior to beginning the flood testing, inspect the waterproofing membrane (e.g. HYDRO BAN® or 9235 Waterproofing Membrane) or other approved material type for any voids, pinholes or other imperfections. Repair any observed problems as stated by membrane manufacturer’s installation instructions. Plug all drains within the area to be tested with suitable plugs, as stated previously. Fill the area around the plug and drain to check for leaks around the plug and drain installation before proceeding with the full test.

Flood the area being tested with potable water to a minimum depth of 1” (25mm) to a maximum depth of 4” (100mm) at the low point of the test area. The mean water depth should not exceed 2 1/2” (65mm). Water added to the area to be tested must be at a pressure that will not damage the membrane and will not flow onto any lapped edges. In case of any leaks it may be best to have a contingency plan in effect to deal with the water. If the flood test is being performed in an exterior environment, the testing should not be performed if rain is anticipated to occur during the test period.

For accurate measurement of water loss due to environmental conditions (evaporation, wind, etc…) it would be a good idea to place a watertight, flat-bottom, vertical-sided shallow pan to the approximate depth of water in an adjacent area which will be subjected to all of the same environmental conditions as the test area. At pre-determined points, in both the area being tested and the shallow pan, measure the water at the beginning and end of the test. Calculate any changes in water depth in the area being tested and the shallow pan. If the difference in depth in the area being tested is substantially greater than the shallow pan, then membrane leakage is probable.

Flood tests should be conducted within a time range of 24 – 72 hours, with the time for testing to begin when the water has reached its maximum test depth. It is important that flood testing be constantly monitored, so plan accordingly. If unexpected rain or water addition takes place during the test period, the test should be discontinued prior to the water flowing above the containment edges. The addition of any water after testing has commenced will also render the flood test as inaccurate and should be stopped.

Monitor any spaces below the area being tested for signs of water infiltration at 1 – 2 hour intervals until completion of flood test. If any leakage occurs during the flood test, the water should be immediately drained, the leak source found and repairs made as recommended by membrane manufacturer.

If repairs are made to the waterproofing system, it will be necessary to conduct another flood test to ensure that complete waterproof integrity is achieved. A flood test is considered to be complete if no leaks are determined to exist during the test period, and, the membrane and any flashing are considered to be intact.
LATICRETE had a great presence and showing this year at CERSAIE, International Exhibition of Ceramic Tile and Bathroom Furnishings, in Bologna, Italy. We were also present at what is the leading global event, for the natural stone industry — MARMO + MAC Trade fair, in Verona, Italy.

I would like to thank all of our customers who made the journey and took the time, to visit us at these shows. We took this opportunity to showcase the best of what LATICRETE has to offer, in terms of new technology and innovative products.

LATICRETE is always working to deliver the best in construction solutions and is involved with various prestigious projects globally. In this issue, we look at one such project, from our colleagues in LATICRETE Philippines.

Solaire Resort & Casino is a resort and casino in Entertainment City, a massive complex built along the Bay City area of Parañaque, in Metro Manila. This project is part of Philippines vision to boost gaming tourism and be counted amongst the popular destinations such as Las Vegas and Macau.

Working closely with our retail partners in Africa, our team has had a successful retail launch of LATICRETE products within Kenya. Moving forward we see LATICRETE M.E. play a greater role within the retail network, as we continue to build our partnerships and expand our reach.

Ritesh Singh
General Manager
LATICRETE Middle East and Africa
At the heart of the Philippines Entertainment City, LATICRETE® helps Solaire Manila Resorts

by Michael Pallerino and Tanja Kern

It is big — and then some. At $1.2 billion, the Solaire Manila Resorts casino is the heart and soul of a complex called Entertainment City, the Philippines’ high-stakes bid to join the likes of Macau, China, and Las Vegas, Nev., in an elite group of gaming destinations. The complex — Solaire, a French word meaning “the breeze from the sun” inspired by the Manila Bay Sunset — is the first of four on reclaimed land in Manila Bay. The resort/casino is expected to boost the country’s annual gaming revenues up to $10 billion. Government officials anticipate the sprawling Entertainment City complex will deliver 10 million newly well-off Asian tourists annually (as a comparison, it has attracted just over 4 million in 2012).

Run by Las Vegas-based Global Gaming Asset Management (GGAM), Solaire Manila is a unique blend of casino and resort. The nearly 900,000-square-foot (83,000 square meters) resort complex, which is decorated with mother-of-pearl covered columns and a floor embedded with colored glass, includes nearly 300 gaming tables for baccarat, blackjack, craps, money wheel, pontoon and roulette, as well as 1,200 slot machines and a nearly 20,000 square foot (6,000 meters) VIP gaming salon. Other Las Vegas-type attractions include an entertainment lounge offering live music.

On the resort side, there are 500 hotel rooms and suites, bayside villas that overlook Manila Bay ranging in size from 2,000 to 3,200 square feet (600 to 1,000 meters). In addition, there is a state-of-the-art ballroom and meeting space, a fully equipped spa and fitness center, and a diverse array of world-class dining experiences, including signature, casual and quick-serve restaurants. The dining venues, headed by world-renowned chefs, showcase a comprehensive selection of authentic local and international flavors.

To house the anticipated influx of visitors, Solaire boasts more than 2,000 parking slots. Looking to the future, developers plan to add another wing, which will include 300 all-suite hotel rooms, 30-40 high-end shops and a theatre for travelling Broadway shows and foreign lounge acts.

In a luxurious resort of this magnitude, every detail, down to the tiles in the bathroom, is of the utmost importance. That’s why the stone installer, Euroasia Marble & Granite Inc. of San Juan City, Philippines, looking to put its best foot forward, turned to LATICRETE® for assistance. Euroasia had worked with the LATICRETE team in the past, giving it a comfort level that was critical on such a big project. Citing the firm’s penchant for superior technical support and products that offer stronger results than competing brands, Euroasia called on LATICRETE.

“When we bid for the project, there was a list of suppliers indicated for adhesives for the installation of marble,” said Mary Grace Lam, vice president of finance for Euroasia Marble & Granite. “We found LATICRETE products to be superior, and had complete testing data on all their products, plus LATICRETE has a very strong marketing and technical support group. Also, in our time working with them, LATICRETE has been very conscientious on following the schedules for production and delivery demanded by the project.”
In sitting down with the Euroasia team to sketch out the project, the design & installation team put together a list of LATICRETE® products that would be vital to the finish installation, which featured Crema Marfil Stone Tile. The team’s list included 335 Flexible Cementitious Adhesive (white), LATAPOXY® 310 Stone Adhesive, 4237 Latex Additive mixed with 211 Powder and 1600 Unsanded Grout.

“The developer (Bloombury Investments Holdings) and contractor (DMCI) backed Euroasia on the fact that LATICRETE 335 Flexible Cementitious Adhesive could deliver the type of performance they needed to install the floor,” said Dennis Puno of LATICRETE Southeast Asia. As part of a routine verification of the installation methods, the team conducted an internal compatibility test with the stone (Crema Marfil) and 335 Flexible Cementitious Adhesive, and then submitted the report to the project managers with a certification letter that guaranteed the project.

Euroasia used a dry-packed method for the screeding and leveling followed by 335 Flexible Cementitious Adhesive to install the marble for all the interior stone flooring. The Crema Marfil marble finishes for the bathrooms were 20 mm thick, 300 x 600 mm size for the bathroom walls, and 20 mm thick, 600 x 600 mm for the flooring.

In addition, Euroasia used LATICRETE Flexibond to install a decorative German white stone in the bathroom and toilet areas and LATAPOXY 310 Stone Adhesive for the stone work, which included vertical columns and steel-framed staircases. The adhesive, a two-component, high strength epoxy adhesive, is formulated for the spot bond fixing method of tile and stone installations on vertical surfaces. LATAPOXY 310 Stone Adhesive is ideally suited for applications that require non-sag characteristics during the installation. In addition, it can be used over a variety of substrates while increasing productivity and ultimately lowering labor costs.

The LATAPOXY 310 Stone Adhesive and LATICRETE Flexibond were used as alternative solutions for the German white stone installation, which is very moisture sensitive, as well as for the steel-framed staircase.

Other LATICRETE products included 4237 Latex Additive mixed with 211 Powder for the installation of calacatta stone for the interior water features and 1600 Unsanded Grout, specified in the following colors: almond, sauterne, bright white and butter cream.

When it was all said and done, the bathroom and toilet areas add a sense of sophistication to what the developers were trying to accomplish with the Solaire Manila Resorts. The resort, which opened in March, joins the ranks of the other projects that Global Gaming Asset Management have created, including the Venetian Las Vegas, The Sands Macao, the Venetian Macao and Marina Bay Sands in Singapore.

“We like working with LATICRETE because their people are knowledgeable about their products, and they are very responsive on our needs as contractors,” Lam said. “The success of this project is the product of cooperation between everyone involved. We had good marble suppliers who delivered good materials on time. We had a very strong project team handling the installation on our end. We had strong support from the construction management team, DCI, and the general contractor, DMCI, and the project management team of Solaire.”

**LOCATION:** Paranaque City, Philippines

**DEVELOPER/OWNER:** Bloombury Investments Holdings Inc. Las Vegas, NV

**ARCHITECT/CONSULTANT:** Steelman Partners - Makati City, Philippines

**LOCAL ARCHITECT:** Casas + Architects - Makati City, Philippines

**CONTRACTOR:** D.M. Consunji Inc. Makati City, Philippines

**STONE INSTALLER:** Euroasia Marble & Granite Inc. San Juan City, Philippines

**LATICRETE SUPPLIER:** Euroasia Marble & Granite Inc. San Juan City, Philippines
CERSAIE & MARMO + MAC Exhibition in Italy

LATICRETE M.E. would like to thank all of our clients for taking the time out to visit us at CERSAIE, International Exhibition of Ceramic Tile and Bathroom Furnishings, in Bologna, Italy and MARMO + MAC Trade fair, in Verona, Italy.
LATICRETE® 254 Platinum is ideal for interior and exterior applications on all suitable substrates, especially pools, fountains and facades. LATICRETE 254 Platinum is available in standard and rapid versions which allows for grouting in 2 — 4 hours.

- Exceeds ANSI A118.4 Shear Bond Strength Requirements & ANSI A118.11.
- Ultimate adhesion for porcelain and glass tiles.
- Superior for exterior and submerged applications.
- High shear bond strength.
- Smooth creamy formula.

For detailed information, see the product data-sheet,

CORPORATE HEADQUARTERS:
LATICRETE International, Inc.
One LATICRETE Park North Bethany, CT 06524-3423
USA. 1.800.243.4788, +1.203.393.0010
www.laticrete.com

Stay Connected:
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