

# LEGOLAND® Water Park

## Johor Bahur, Malaysia



### INSTALLER/APPLICATOR

- STAR'K - Kuala Lumpur, Malaysia

### GENERAL CONTRACTOR:

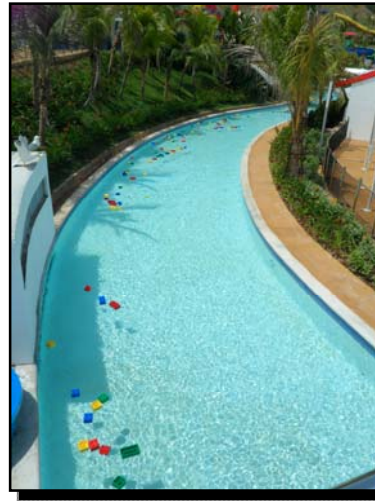
- Sunway Construction Malaysia - Selangor Darul Ehsan,
- Malaysia

### ARCHITECT:

- Alma Architects & Planner - Selangor Darul Ehsan, Malaysia

### PRODUCT FEATURED:

- ARDEX WPM 265 Water Based Primer
- ARDEX WPM 109 (formerly known as ABA 59M) Highly Flexible Cement-Based Waterproof Coating
- ARDEX Abacrete Bonding Agent for Use with Sand/Cement Screeds and Renders
- ARDEX WPM 256 (Hydrepoxy) Bonding Bridge
- ARDEX Abalastic Liquid Polymer Additive for ARDEX Cement-Based Adhesives and Compounds
- ARDEX FG 8 Flexible Coloured Grout
- ARDEX Grout Booster Water-Based Polymer Grout Improver
- ABA 282Y Flexible Cement-Based External Skim Coat
- ABA 500T Tile Adhesive



### CHALLENGES:

- 5,850 square meter installation area
- Four-months installation time frame
- Construction taking place during rainy season (rain showers every afternoon)
- Excessive humidity throughout installation substrate



### Situation

LEGOLAND® Water Park has more than 20 slides and water based attractions and boasts 70 LEGO models. The LEGOLAND Build-a-Raft allows guests to design and build a unique LEGO raft and set afloat on a voyage around the lazy river. The ivory cement-based skim coat on the walls of the lazy river had to withstand water immersion and pressure. From the time of proposal submission to the job completion, installers had four month to finish the installation.

For additional information, please contact [ipss@ardexamericas.com](mailto:ipss@ardexamericas.com)

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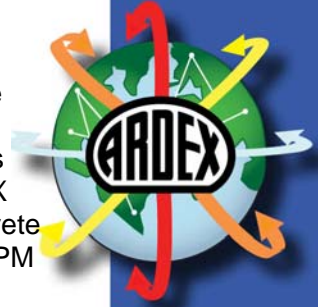
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## Solution



STAR'K worked with ARDEX Singapore Technical Services Department who recommended various ARDEX products for the LEGOLAND Water Park. ARDEX WPM 265 was used to prime new concrete surfaces. Next they applied ARDEX WPM 109 waterproofing membrane, a tough, ready to use product specifically designed for use under tiles. ARDEX WPM 109 is totally resistant to re-emulsification once cured and not affected by temperature extremes. Adding ARDEX Abacrete into the sand/cement screed improved water resistance and accommodates thermal

movement. An ivory decorative cementitious skim coat of ABA 282Y mixed with ARDEX WPM 256 was applied as a final step. This provided excellent water resistance and superior adhesion to the substrates. ARDEX FG 8 and ARDEX Grout Booster were used to fill the mosaic tile joints to prevent mold growth on tiles in the Lazy River. ARDEX WPM 256 water-based epoxy enabled the high-humidity installation to continue with minimal down time. ARDEX Singapore Technical Services Department provided installation demonstrations and site inspections regularly during the installation to ensure correct application processes were being followed.



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