



Setia Spice Convention Centre

Bayan Baru, Penang, Malaysia



Completion Date
2017

Owner
SP SETIA & PENANG ISLAND CITY COUNCIL

Engineer
ARUP

Contractor
ECONPILE SDN. BHD., AND SYARIKAT SUCCESS CONSTRUCTION SDN. BHD.

Applicator
RNC INTEGRAL CONCRETE TECHNOLOGY (M) SDN BH

Products
ADMIX C-1000 NF, CONCENTRATE, MODIFIED

Dubbed the country's first subterranean convention centre and located on a 10.1 hectare plot of land on the island of Penang, on the north-west coast of peninsula Malaysia, the Setia Spice Convention Centre is a world class integrated convention centre featuring a number of record-setting facilities. The Grand Ballroom, comprising 4,500 square metres of contiguous, pillar-less space that can accommodate 400 round banquet tables or 8000 theatre seatings, while for larger special events, the grand ballroom can be expanded to include the 2,000 square metres of the adjoining Grand Foyer. Additionally, there are 13 separate function rooms of various sizes available throughout the facility.

Also part of the complex, the Setia Spice Aquatic Centre provides a choice of both wet and dry activities, including Olympic-sized, salt water swimming pool, lounge, a dance studio, gymnasium, sauna rooms, badminton and squash courts.

Another major feature of the centre is the 25,000 m² of roof gardens, in fact the largest rooftop recreational park in Malaysia, featuring a special needs children's playground; more than 3,800 m² of green lawn space, a large bamboo parklands area plus water and architectural features, plantations, etc.



Olympic-sized lap pool viewed from viewing platform

Xypex **Admix C-1000 NF, Concentrate and Modified** were used to waterproof more than 50,000 m² of 'exposed' concrete structures throughout the entire Setia Spice Convention Centre complex, including the subterranean basement structures, concrete water tanks, internal wet areas, swimming pool, roof gardens and the concrete flat roof were all waterproofed and protected using Xypex products.





Given the environmental circumstances of the location, including a high water table, elevated levels of chlorides, sulphates and carbonating gasses, [Xypex waterproofing technology](#) was selected and specified for this project because, unlike other concrete waterproofing systems, Xypex offered permanent and enduring concrete waterproofing and protection, with cost savings accruing from reduced initial construction time as well as future concrete maintenance costs.

Located next to the Bayan Lepas industrial zone—known as the Silicon Valley of the East—and developed by Eco Meridian Sdn. Bhd., a subsidiary of S P Setia, the Setia SPICE development is aimed at creating value in the international conferencing, exhibitions, meetings and incentives sector, as well as serving as an events and hospitality venue, a sports and recreation centre and one-stop, lifestyle hub with restaurants, cafes and retail establishments, for the local community.

Setia SPICE's sustainable criteria and potential to boost Penang's economy has earned it The Edge and Malaysia Institute of Architects (PAM) Green Excellence Award. The award is based on a product's designs, sustainability, implementation, cost efficiency, green buildings standards and contributions to the community.

In June of 2019, Setia Spice achieved a World Gold Award in the 'Purpose Built' category at the FIABCI World Prix d' Excellence 2019, held in Moscow while later in the same year, it was awarded the Gold Award of Special Merit in the prestigious Association of Consulting Engineers Malaysia (ACEM) Engineering Awards 2019. It is the Association's highest award.

