

## Pumpable high-strength concrete with MasterEase for the Four Seasons Private Residences in Bangkok

**Project:**

Four Seasons Private Residences

**Location:**

Bangkok, Thailand

**Project completed:**

Started 2016

**Owner/s:**

Four Seasons Group

**Applicator/Contractor:**

CPAC

**Developer:**

Country Group Development

**Market sector:**

Mixed-use development

**Products used & amounts:**

MasterEase 3029  
including G80, G60 and G45  
50,000 m<sup>3</sup>



Our reference in Bangkok (Thailand): The Four Seasons Private Residences

### The background

Being the first Four Seasons Private Residence waterfront development in Asia, **the Four Seasons Private Residences** is part of the mixed-use development along the banks of Bangkok's Chao Praya River, standing tall at 73 storeys high and emerge as Thailand's exquisite landmark.

**Developed by Country Group Development**, the prime waterfront location coupled with Four Seasons legendary service and amenities, this property will bring luxury hospitality market in Bangkok and undoubtedly recognised as one of a top destination for world travellers.

### The challenge

Optimizing building design and structural strength are key to ensure efficient use of real estate space especially for such iconic urban development. **The Four Seasons Private Residences** called for G80 high-strength concrete shear wall and transfer beam for its superstructure elements – columns, to minimize the size of columns as part of the optimisation works.

Stringent requirements are also placed on the finishing of concrete as achieving smooth surface texture will be challenging for the conventional high-strength concrete mix.

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## Our solution

**MasterEase 3029**, low-viscosity concrete admixture solutions that improves rheological properties of high-performance concrete is used for G80, G60, G45 concrete mix. **MasterEase 3029** significantly facilitates pumping, placing and finishing of concrete without the need for surface repair.

## The customer's benefit

- No delay to project schedule – ready-mix concrete with MasterEase maintains its consistency and flowability, making concrete easy to pump and place on site.
- Eliminates the need for concrete surface repairs – saving overall project time and costs.
- Assurance on the concrete mix design via the pump simulation test to achieve 530 m and slump retention of up to 3 hours.
- Supported by regional and local experts from MBS
- Gain recognition as leader in the construction industry of Thailand to be the first using pumpable G80 high-strength concrete.

## Projects facts at a glance

- The first project in Thailand to use pumpable G80 high-strength concrete for superstructure elements.
- The longest G45 pumpable concrete to apply through the top of the building at 305 m.

## Master Builders Solutions by MBCC Group

The Master Builders Solutions brand expresses MBCC's expertise in providing customized chemical solutions for new construction, maintenance, repair and restoration of structures.

Master Builders Solutions is built on the experience gained from more than a century in the construction industry. At the core of the Master Builders Solutions brand is the combined know-how and experience of a global community of MBCC construction experts, who connect with you to solve all of your construction challenges.

Further information is available at:

[www.master-builders-solutions.com/en-asiapacific](http://www.master-builders-solutions.com/en-asiapacific)