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

**Project:**
Four Seasons Private Residences

**Location:**
Bangkok, Thailand

**Project started / completed:**
Started 2016

**Owner:**
Four Seasons Group

**Developer:**
Country Group Development

**RMC Contractor:**
CPAC

**Market sector:**
Mixed-use development

**Products used & amounts:**
MasterEase 3029 including G80, G60 and G45 50,000 m³

**Sales contact:**
Suchart Phussadisophon

Photo: A low-density, mixed-use development with luxury hotel and residential buildings spanning along the Bangkok's Chao Phraya River. Credits: Four Seasons press photos (press.fourseasons.com)

### 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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Casting of G80 high-strength concrete columns.

Our solution

MasterEase 3029, low-viscosity concrete admixture solutions that improve 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 BASF
- 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 from BASF

The Master Builders Solutions brand brings all of BASF’s expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of BASF construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction.

The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair & protection solutions, performance grouts, performance flooring solutions.

Flow test on site to ensure the consistency in flow of the concrete mix with MasterEase