ONE Bangkok
Thailand’s Largest Fully Integrated District

The background

One Bangkok is a new global landmark destination – a fully-integrated district in the heart of the city. Once completed, it will be synonymous with Thailand and enhance the country’s stature on the world stage.

One Bangkok sets new standards in terms of design, quality, connectivity and sustainability to be the most prestigious corporate address in the city. A vibrant lifestyle destination, it combines hospitality, retail, art & cultural experiences, together with the city’s finest residences. One Bangkok incorporates the unique essence of Bangkok’s rich history, combining a deep understanding of its social and cultural context with new experiences of urban living.

The development philosophy focuses on people-centric principles; environmental sustainability; and smart-city living, to create a new way of urban living not yet seen in Bangkok. Designed to be green, smart, safe, and with nearly half of the site’s footprint designated for the public, One Bangkok will be accessible and inclusive, to inspire new forms of public participation and creativity.

The Challenge

To pull off the biggest single-pour mat foundation in Thailand, the main challenges focused on productivity and consistency of the concrete quality.
ONE Bangkok
Largest mat foundation pouring in Southeast Asia history

Good slump retention made mass pouring possible

Our Solution

MasterEase 3093 allows high fly-ash content concrete to be workable for a much longer time in comparison with normal concrete. The challenge for the largest mat foundation pouring is to achieve consistent concrete quality and to be productive. MasterEase 3093 was specially developed for this prestigious project.

The customer’s benefit

- Higher productivity of concrete
- Longer slump retention of up to 3 hours
- Good flowability of concrete
- High consistency of concrete batched from various RMC plants
- Good strength with high fly-ash content mix

Projects facts at a glance

- Size of mat foundation size: 59.10 x 91.50 x 4.50 m
- Concrete requirements:
  - High fly ash content mix (> 50% of total binder)
  - Compressive strength 60 MPa
  - Workability is 20 cm
  - Retention time is 3 hours
- Total volume: 23,725 m³
- Peak pour rate: 1,150 m³/hour
- Total duration: 33 hours 15 minutes
- Number of RMC batching plants: 38 plants
- Number of RMC trucks: 547 trucks

Good workability concrete allowed seamless working on site

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.