

Project:

ONE Bangkok Mat
Foundation Pouring

Location:

Bangkok, Thailand

Project completed:

February 2020

Applicator/Contractor:

Italian-Thai Development

Concrete Producer: CPAC

Market sector:

Admixture System

Products used & amounts:

MasterEase 3093
110,000L

ONE Bangkok Thailand's Largest Fully Integrated District



Our reference in Bangkok (Thailand): 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.

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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

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