

Project:

The Master Nun Chand Khonnokyoong Centennial Memorial Building,
Dhammakaya Temple

Location:

Pathumthani, Thailand

Project completed:

Expected 2018

Owner/s:

Wat Phra Dhammakaya

Applicator/Contractor:

Ritta Co., Ltd.

Concrete Producer:

TPI Concrete

Market sector:

Commercial

Products used & amounts:

MasterGlenium ACE 8320,
32,400 liters

The Master Nun Chand Khonnokyoong Centennial Memorial Building



Our reference in Pathumthani (Thailand): The Master Nun Chand Khonnokyoong Centennial Memorial Building

The background

The Master Nun Chand Khonnokyoong Centennial Memorial Building was built to replace the old school of Pali and Buddhist studies, which was worn-out after decades of use. This project was initiated on the occasion of the 100th birthday anniversary of the late Meditation Master Nun Chand Khonnokyoong.

The building will house meditation halls, classrooms, exhibition hall, auditorium and museum, as the world venue where Buddhist academics and expert practitioners from all over the world meet, discuss, exchange ideas as well as cooperate on educational and global peace programs.

The challenge

The building is designed with an orb-shaped structure with a meaning of anyone can become like the sun, in that one has light within and at the same time shares their light with all living beings without discrimination.

The unique exterior also implied highly challenging concrete casting process, especially related to the casting of the complex nod mold.

Besides the need to produce high-strength concrete, stringent requirements are put upon the finished concrete quality as the owner requires the building to show real and smooth concrete surface without any finishing effect.

Contact:

Sunkamol Khongsawatvorakul
Manager-Sales, EBA
Master Builders Solutions (Thailand)
Limited, 307-308 Moo 4
Soi 5 Bangpoo Industrial Estate,
Samutprakarn 10280, Thailand

Phone: +662 161-4150
Mobile: +6681 702-4372
Email: sunkamol.khongsawatvorakul
@mail.mbcc-group.com

The Master Nun Chand Khonnokyoong Centennial Memorial Building



Our reference in Pathumthani (Thailand): The Master Nun Chand Khonnokyoong Centennial Memorial Building

Our solution

MasterGlenium ACE 8320 provide the ideal superplasticizer for the concrete mix. Especially when used for casting the complex heavily reinforced nod mold, **MasterGlenium ACE 8320** provides more workability compared to normal concrete and produces high quality finishes without segregation or bleeding in concrete.

With its great fluidification and water reduction properties, it also improves the waterproofing and durability of the concrete by decreasing its porosity, which also aid the contractor to commit to the owner's requirements for long-term waterproofing warranty.

The customer's benefit

- Achieved concrete strength requirement - More durable, high performance concrete.
- Easy casting concrete with complex mold - Increased productivity and efficiency, also enhanced safety as complicated construction process are eliminated.
- Nice and smooth surface - Aesthetic concrete finishing that requires little or no surface repair works, color of concrete also appear nicer.
- Construction process in precast yard greatly improves due to reduction of curing cycles.

Projects facts at a glance

- 6,000 cubic meters of concrete placed
- 300 pieces of pre-cast nodes and 700 pieces of precast members casted
- 32,400 liters of MasterGlenium ACE 8320 used

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