

**Project:**

Kingdom Tower

**Location:**

Jeddah, Saudi Arabia

**Project completion:**

2020

**Owner/s:**

Jeddah Economic Company

**Applicator/Contractor:**

Saudi Bin Laden Group (SBG)

**Designer/Architect/Specifier:**

Adrian Smith + Gordon Gill  
Architecture

**Market sector:**

Commercial & Residential

**Products used:**

MasterGlenium Sky 504S

MasterMatrix 110

MasterRheobuild 850

MasterPozzolith RMC4M

MasterEase 3744

MasterEmaco S 488

MasterEmaco S 434

MasterKure 181

MasterKure 198

MasterKure 111 CF

MasterTop 528

MasterSeal 940

MasterSeal Traffic 1500

WABO Architectural Expansion  
Joint

## Kingdom Tower

### Jeddah Tower



Our reference in Jeddah, Western Region (Kingdom of Saudi Arabia): Kingdom Tower  
Picture Source: Google Maps.

#### The background

The building has been scaled down from its initial 1.6 km (about one mile) proposal, which was never fully designed, to a height of at least 1,000 meters (3,281 ft.) (the exact height is kept confidential in the development phase). The Jeddah Tower would still be by far the tallest building or structure in the world to date, standing 180 m (591 ft.) taller than the Burj Khalifa in Dubai, United Arab Emirates. Jeddah Tower's 50-hectare (120-acre) plot with surrounding buildings will be the first of a three-phase Jeddah Economic City development. The three-phase project proposed for a large area of undeveloped waterfront land with an area of 5.2 km<sup>2</sup> (2.0 sq. mi). It was originally planned to cover 23 km<sup>2</sup> (8.9 sq. mi). The area is located roughly 20 km (12 mi) north of the port city of Jeddah

#### The challenge

- Harsh climatic conditions.
- Tough competition.
- Delay in the progress.
- Funds shortage due to the economic situation in KSA.
- Project requirements (high performance concrete with high rise pumping).

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# Kingdom Tower

## Jeddah Tower



Our reference in Jeddah, Western Region (Kingdom of Saudi Arabia): Kingdom Tower  
Picture Source: Google Maps.

### Our solution

- High performance admixtures & MasterGlenium range (MasterGlenium Sky 504S, MasterMatrix 110, MasterRheobuild 850, MasterEase 3744 & MasterPozzolith RMC4M) due to the requirements of the project High flowability and pumpability of concrete. In addition to the high compressive strength concrete.
- High performance concrete repair like (MasterEmaco S 434 & MasterEmaco S 434).
- High efficiency curing compound systems (MasterKure 181, MasterKure 198 & MasterKure 111 CF).

### The customer's benefit

- An on-site technical assistance and training were provided to ensure the proper application of the proposed systems.
- High performance systems which meet the consultant, contractor and client requirements.
- Single source of construction chemical materials as *Master Builders Solutions* include full range of systems starting from Concrete admixtures, Curing compound, Repair, Waterproofing, Flooring, Grout and expansion Joint systems.
- Availability of the materials

### Projects facts at a glance

- Attending to the project requirements.
- Developing new products to meet the site challenges.

### 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:

<https://www.master-builders-solutions.com/en-sa>