

**Project:**  
Dubai Metro Rapid Link Transport

**Location:**  
Dubai, UAE

**Project completed:**  
2010

**Owner/s:**  
Roads and Transport Authority  
(RTA)

**Contractor:**  
MHI Japan, JT Metro  
(Japan-Turkey JV)

**Designer/Engineer:**  
Systra / Parsons & WS Atkins

**Market sector:**  
Transportation

**Products used:**  
MasterRoc® FLC100

**Total application area:**  
50,000 m<sup>2</sup>

## Dubai Metro Post Tensioning Grouts



### The background

The Dubai Metro is a driverless, fully automated metro network in the city of Dubai. The Red and Green lines have been constructed, and further lines are planned. These first two lines run underground in the city center and on elevated viaducts elsewhere. Guinness World Records declared Dubai Metro to be the longest fully automated rail system in the world.

### The challenge

- RTA preferred the Master Builders Solutions grout materials, however, the project is in the scope of Dubai Rail Link (DURL), hence, great support was required from sales and technical teams to get approval for MasterRoc® FLC 100.
- The product MasterRoc® FLC 100 has to be supplied in new pack size from 15 kg to 9 kg to match the drum capacity of the post-tensioning grout .

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# Dubai Metro

## Post Tensioning Grouts



### Our solution

Master Builders Solutions engineered and supplied the range of cementitious and epoxy grouts, as per the desired schedule, to match the pace of the job.

For the product MasterRoc® FLC 100, the innovation and the differentiation was achieved by changing the pack size from 15 kg to 9 kg to facilitate comfortable usage by the customer, as per the capacity of the post-tensioning grout mixing machine. This change in pack size was the result of involvement, intelligence and the ability to anticipate future problems and solving them in advance. This exercise, making the customer's problem ours, helped build the relationship that generated confidence such as to remove customer's anxiety.

### Projects facts at a glance

All the epoxy and cementitious grout products were previously used in various big road projects which helped to gain the confidence of the Client, Consultants and Contractor.

The product MasterRoc® FLC 100 was supplied in a new 9 kg pack size to facilitate the mixing capacity of Post-tensioning Machine

### Master Builders Solutions

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

Further information is available at:  
[www.master-builders-solutions.com/en-ae](http://www.master-builders-solutions.com/en-ae)