

Case Study



PROJECT INFORMATION

Project name: Riyadh Metro Project

Client: High Commission for the Development of Arriyadh

Consultant: Riyadh Metro Transit Consultants

Contractor: BACS consortium

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expertise



quality



full range



PROJECT REQUIREMENT

Task at Hand

The BACS consortium will be responsible for the design and build of Lines 1 and 2 of the Riyadh metro network. These two lines will form part of the six-line metro system that will run for a total length of 176 kilometres across the city and includes 85 stations.

In the deep underground stations, there is a traffic deck slab. This slab has composite structure of steel girders and precast RC elements. The joint between these elements should be filled with a suitable material that can transfer and carry the heavy dynamic load. Also our solution should be applicable to the requested flowability on site and the requirement of specifications and drawings. However, this should meet the budget of this work area.

DCP SOLUTION

We proposed a system of non-shrink grouts that consist of **Flo-Grout 2** and **Flo-Grout EPCG** products. **Flo-grout 2** is used where no dynamic load is expected, and **Flo-Grout EPCG** is used to fill the gaps where heavy dynamic loads are expected. **Flo-grout EPCG** is recommended since the quantity of the filler part can be adjusted to obtain the proper flow and the continuous fill as required.

Products and Quantities Supplied

Flo-grout 2	145 m ³
Flo-grout EPCG	110 m ³

Supply Period

January to July, 2016