

Project Brief

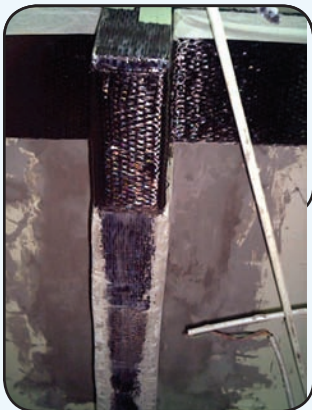
Serafi Mall
Beam Repair and Upgrade



Mecca, Saudi Arabia



This project was for the repair and upgrade of concrete beams in a shopping mall in Mecca. Spalled concrete was discovered on concrete beams. This was due to deterioration of the steel reinforcement from corrosion damage. This was caused by leaking water from faulty plumbing. In addition, cracks appeared along the beams due to poor design of steel reinforcement and additional loads on top i.e AC Units, Water tanks, and Rooms (accommodations).



The recommendation was to repair the cracks by resin injection. Repair the damaged concrete with cementitious repair mortar. Apply 4 layers of the Tyfo SCH-41 System.

The Tyfo System was easy to handle and install. There was no need to remove AC Units. No holes were drilled in slab or beams as in the case of fixing steel plates. The repair time was shortened. The authentic appearance was not affected. The function and activities of the mall and shops were not affected.

Fyfe Co. LLC

Nancy Ridge Technology Center

6310 Nancy Ridge Drive, Suite 103, San Diego, CA 92121-3209

Tel: 858.642.0694 **Fax:** 858.642.0947 **E-Mail:** info@fyfeco.com **www.fyfeco.com**