



constructive solutions

Case Study

Project Name: *Squire Toiletries Ltd, Rupganj, Narayanganj, Bangladesh.*

Client: **Squire Group, www.squiregroup.com**
Year of Completion: **2014**
Renovation

Consultants *Environment and Infrastructure Management Solution Ltd/Bureau of Research Testing And Consultation, BRTC (BUET).*

Contractor *Nutech Construction Chemicals Company Ltd,*
City or Region & Country: **Dhaka, Bangladesh.**

Task:

- Rectification of Column , beams and slabs by micro concreting.
- Increasing flexural capacity of beams
- Filling cracks of slab, column and beams by Nitofill EPLV.
- Installation of shear connector at slab, beam and column by Lokfix.
- Fosroc Proposed Renderoc RG (Micro Concrete) instead of regular Concrete as specified by consultants to match 40 Mpa existing concrete of existing columns & Beams.
- Fosroc Repair & Remediation solutions were recommended and used for repairing
- Materials used included Fosroc Nitofill EPLV, Fosroc Renderoc Renderoc RG , Fosroc Conbextra GP2, Fosroc Nitobond EP, Lokfix, Concure LP 90, Reebol Emulsion Xtra.

Constructive Solution:

Value to Client:

- The squire toiletries is one of the leading manufacturer of Toiletries items including baby diapers. Since the operation cannot be stopped for a single moment, we need to propose a proper technique of retrofitting so that the regular work can be performed during the execution process.
- Fosroc micro concrete assisted the customers with developing and gaining high strength concrete to match existing high grade concrete that met the stringent project requirements as specified by consultants.

History: Squire group purchased the building from client without any structural detailing. Immediately after the purchase, clients identified some cracks and corrosion on its structural members. Clients approached us and we proposed to carry out NDE (UPV, Rebar Scanning, corrosion measuring and Schmidt hammer Tests). Based upon the data, consultants make the retrofitting design together with Fosroc consultation. We propose, sealing cracks and strengthening the same using Renderoc RG, and others.

Later on, the issues has been referred by BRTC (BUET) and Fosroc got involved though its associates, M/s “Nutech construction chemicals Company Ltd”.

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Photo-1: column before retrofitting



Photo-2: Cracked Section of Beams



Photo-3: Columns During Retrofitting



Photo-4: Beams During Retrofitting

Case Study

phases



Photo-5: Column During Retrofitting



Photo-6: Column after retrofitting