

Case Study

Project Name: *Tejgoan Fire Brigade retrofitting, Dhaka, Bangladesh.*

Client: **Public Works Department**
Year of Completion: **2014**
Renovation

Consultants *PWD-Design Division-1.*

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

Task:

- Rectification of Column and beams by micro concrete Encasement.
- Filling cracks of slab, column and beams by Nitofill EPLV.
- Installation of shear connector at slab, beam and column by Lokfix.
- The dilapidated Fire Brigade building is under designed and government identified the same as most vulnerable government building but was not possible owing to alternative accommodation but Fosroc Proposed a retrofitting measures by Micro concrete encasement of its structural members without much interrupting the regular working environment.
- 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 Job accomplished by Fosroc Associate's only in 2 months without much interrupting the regular environment.
- Since Renderoc RG is high flowable and high strength, it meets the requirement of filling cavities and narrow gaps.
- 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: Fire brigade department under disaster mgt and mitigation serving Bangladesh since long. But one constraint of reallocating the same during retrofitting restrict the work. Fosroc and Fosroc Associates proposed to retrofit the same without much interruption of regular environment. To convince customer, many of the sites have been visited by PWD officials and later decided to retrofit the same with Fosroc Renderoc RG and ancillary products.

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Fig: Fire Brigade Building

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Fig: Column After Micro Concrete Encasement

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Fig: Column after Micro Concrete Encasement