



SIKA AT WORK

NAVEENA EXPORTS PVT. LTD

FACTORY, LAHORE

**SIKA SOLUTIONS WITH TM REFURBISHMENT
PRODUCTS**

NAVEENA EXPORTS PVT LTD FACTORY, LAHORE

RE-STRENGTHENING WITH SIKA CARBODUR® SYSTEM

Project:

Part of the Naveena Group Pvt Ltd. Naveena Exports private limited has become one of the most prestigious and sought after companies in the denim industry due to the company's extensive research and development activities and sound marketing strategies. Company offers a wide range of denim fabrics and is engaged in the manufacturing of high end fashion of Woven Garments. Naveena textiles have been established with the goal of serving its customer needs in the most utmost manner with an assurance of product quality and excellence of service. Naveena Exports required strengthening of reinforced concrete structures at its factory located at Defence road, Lahore.

Project Requirements:

The use of a building may change throughout the course of its service life, as for example its whole function can change, loads can increase and/or higher building standards are required and the structure must be made compliant. Naveena textiles demanded re-strengthening of its production Hall situated on the ground floor in order to aid the addition of another floor in the building. Sika offered its integrated structural strengthening system to meet the requirements of the project. Carbon Fiber Fabric was demanded by the client for enhancing the strength and ductility of columns. In addition to this, pultruded carbon fibre plates were demanded by the client for strengthening of the slabs of the production hall. Moreover, structural adhesive & epoxy impregnation Resin were also required for bonding reinforcement.



Sika Solution:

Sika offers state-of-the-art technical expertise in combination with customized solution for repair, refurbishment and strengthening of existing structures. This includes fully compatible products and integrated systems to suit almost every project and site requirement. Taking into account client's requirements Sika offered its high performance strengthening system to boost and improve the capacity, efficiency, durability and aesthetics of buildings and other structures. SikaWrap-230 C woven carbon fiber fabric for structural strengthening was suggested for strengthening of the columns at the ground floor.



SikaWrap-230 C is a unidirectional woven carbon fiber fabric used for increasing loading capacity of structural elements and strength and ductility of columns. Its low density component provides improved serviceability with improved seismic performance of masonry walls. In addition to this, Sika CarboDur plates were recommended for strengthening of the slabs. Sika CarboDur plates are pultruded carbon fibre reinforced polymer (CFRP) laminates designed for strengthening concrete, timber and masonry structures. Sika CarboDur plates are used to strengthen structure in case of load increase, earthquakes, service improvements and damage to structural elements etc. Moreover, Sikadur-30 was recommended to be used as an adhesive for Bonding Reinforcement. Sikadur-30 is a solvent-free, thixotropic, structural two part adhesive for bonding structural reinforcement, particularly in structural strengthening works including Sika CarboDur plates to concrete, brickwork, timber and steel. Lastly, 2-Part Epoxy Impregnation Resin Sikadur-330 was recommended. Sikadur-330 is used as an impregnation resin for SikaWrap® fabric reinforcement. Its high mechanical properties provides excellent adhesion to many substrates.



Project Name: Naveena Exports Pvt. Ltd

Facctory

Project Owner: Naveena Exports Pvt. Ltd

Factory

Consultant: Niazi Design System

Contractor: FAW Chem