



SIKA AT WORK

NLC (GUJRANWALA) FLYOVER PROJECT

SIKA SOLUTIONS WITH TM CONCRETE PRODUCTS

BUILDING TRUST



NLC (GUJRANWALA) FLYOVER PROJECT

HIGH STRENGTH CONCRETE ADMIXTURES, WATERPROOFING COATING, EPOXY GROUT, BONDING AGENT & CURING COMPOUND

Project:

NLC signal-free flyover worth PKR 3,050 Million is located in Gujranwala city. An Upto 1.5 lakh heavy and low traffic vehicle passes from this bypass. It is also the sole existing and entering point of Gujranwala City as a result huge traffic comes from cities like Lahore, Rawalpindi and Sialkot. The project comprises construction of a main flyover of three lanes on either side for traffic coming from Rawalpindi and Lahore entering into or exiting Gujranwala City. Two loops will be provided, leading to eastern and western side bypasses. The flyover will facilitate movement of freight and passenger traffic and has reduced traffic jams, noise and air pollution.

Project Requirements:

Two-lane flyover on either side with the length of 1.755 km and width of 17m aims to manage smooth flow of traffic in the Gujranwala and all the connecting cities. Sika offered its innovative Concrete solutions in order to fulfill the requirements of the project. High strength concrete admixtures were demanded by the client for the production of high quality, free flowing concrete. Two component bonding agent based on selected epoxy resins for the bonding of old to new concrete was also demanded. Multi-purpose epoxy grouting system was required for anchoring & repairing of the concrete. Moreover, Bitumen emulsion was demanded for waterproofing & protective coating on the pile caps. In order to repair hair line cracks in column and pile caps epoxy resin adhesive and repair mortar was demanded. Lastly, curing compound was demanded for spraying onto newly laid concrete surfaces.

Sika Solution:

Since 1910, Sika has always been at the forefront of quality admixtures and cement additives for concrete and mortar products. Sika has extensive product range for approved and cost effective solutions. Sika has a well proven track record. With innovative admixtures and additives to improve cement or concrete quality and workability. Sikament-512 PK High range water-reducing and set retarding concrete admixture was recommended for for the production of high quality, free flowing concrete.



Sikament-512 PK is used wherever high quality concrete is demanded under difficult placing and climatic conditions. Epoxy resin bonding agent Sikadur-32 LP was also suggested for bonding of old to new concrete. Sikadur-32 LP provides a bond of far greater strength than the tensile strength of the concrete itself. Therefore, it is suitable for use wherever structural bonding of new to existing concrete is carried out. In addition to this, Sikadur -42 MP Slow was suggested for anchoring & repairing of the concrete. Sikadur-42 MP Slow HC is a three-component, multi-purpose, solvent-free, moisture tolerant, epoxy grouting system. Moreover, Sika Bitumen was suggested which is a long lasting bitumen liquid emulsion with excellent adhesion, which dries to a tough seamless, waterproof and protective coating for concrete structures and steel elements. In order to repair hair line cracks in columns and pile caps Sikadur-31 CF Slow was recommended which is thixotropic Epoxy Resin Adhesive and repair mortar, based on a combination of epoxy resins and specially selected high strength fillers. Lastly, Antisol-E 15 WPK was recommended which a concrete is curing compound based on emulsified paraffin. Antisol-E 15 WPK curing compounds are sprayed onto newly laid concrete surfaces to form a thin film barrier against premature water loss. Without disturbance to the normal setting action, the concrete is then allowed to cure and achieve maximum physical properties. Antisol-E 15 WPK is particularly useful in large areas of exposed concrete, such as roof decks, retaining walls & pre-stressed beams.



Project Name: NLC (Gujranwala) Flyover
Project

Client: Government of Punjab

Consultant: NESPAK

Contractor: NLC(National Logistics Cell)

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