

Sika at Work



Muslim Town Flyover, Lahore Pakistan

Concrete Admixtures for Bridge

Plastiment 250*

Intraplast Z

Sikadur 31





Muslim Town Flyover

Construction of 2655 meter flyover in 177 days with Sika Admixture

Project:

The Muslim Town flyover project involved construction of a flyover along Ferozpur Road at Canal/ Wahdat road junction. The project was a huge task and a challenge to complete within the time frame given the quantum of work involved.

It was imperative for the Contractor, National Logistics Cell (NLC) to construct the Flyover within 5 months period as the heavy traffic at intersecting road could not be diverted for long. As proposed by the Consultant Nespak ,



heavy flow at the flyover required strict compliance of Construction and Concrete Standards. The construction of project started on 28th October 2011 and Flyover was inaugurated on 21st April 2012.

Project Requirements:

The project consists of three bridges of total 2655 meters length, The structures consist of massive reinforced concrete piles, piers, transoms, I&L-shape pre-stressed girders, box girders, and deck slab, with a structural requirement of Concrete with compressive strength of 4000 Psi and one hour retention. Alongside this, one percent expansion for prestressing cable ducts was required. Another requirement was to bond the bearing pads with concrete, with minimum bonding strength of 3 n/mm² and compressive strength of 34 n/mm² at 45°C.

The Kalma Flyover served as reference project as Sika

was already working with Nespak and Habib construction there and they had a hands-on experience of Sika product quality and smart solutions.

Sika Solution:

The Sub-Contractor Habib Construction Services, approached Sika Sales Team which provided a complete concrete bridge solution that fulfilled structural requirements, time demand as well as continuous supply assurance, as already proved at Kalma Flyover.

Sika Products proposed by the Sika Sales Team include **Plastiment PR 250***, a Concrete Plasticizer used for all types of concrete, with compliance to ASTM C-494 and EN 934-2:2001.

Intraplast Z, to provide one percent expansion to cable grouting mortar within pre-stressed cable ducts.

Sikadur 31 CF Slow, to achieve the adhesion of more than 4 n/mm² and compressive of strength 45 n/mm².

Sika Solution was highly appreciated by the project team, as it complied fully with the project demand leading to construction of 2655 meter flyover in 177 days.



Project Participants:

Project Name: Muslim Town Flyover
Project Owner: Communication and Work Department, Government of Punjab
Consultant: Nespak
Contractor: National Logistic Cell (NLC)
Sub Contractor: Habib Construction Services

