

Sika at Work

Kalma Flyover, Lahore Pakistan

Concrete Admixtures for Bridge

Plastiment 250*

Intraplast Z

Sikadur 31





Kalma Flyover

record construction of 1150 meters in 135 days with Sika Admixture

Project:

The heavy traffic flow around Kalma chowk, located at the intersection of Ferozpur Road and Main Boulevard Gulberg, Garden Town, necessitated the construction of flyover to ease the traffic congestion. Kalma flyover was planned by the Ministry of Communication, Government of Punjab with a total budget of PKR 1.5 billion.

The challenge for Contractor, National Logistics Cell (NLC) was 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,



14th August 2011.

Project Requirements:

The project was to construct two flyovers, each 575 meters long with 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 client was facing supply and quality issues from other supplier in initial testing stage of the project.

Sika Solution:

Sika Sales team approached the Sub-Contractor Habib Construction Services, and provided a complete concrete bridge solution that fulfilled structural requirements, time demand as well as continuous supply assurance.

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-4904 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 strength 45 n/mm².

Sika Solution was highly appreciated by the project team, as it complied fully with the project demand leading to a record construction of 575 meters two flyovers in 135 days.

The successful completion of project led to the award of another concrete bridge project from Contractor with same requirements to Sika Team.

Project Participants:

<i>Project Name:</i>	Kalma Flyover
<i>Project Owner:</i>	Communication and work Department, Government of Punjab
<i>Consultant:</i>	NesPak
<i>Contractor:</i>	National Logistic Cell (NLC)
<i>Sub Contractor:</i>	Habib Construction Services

