



# **SIKA AT WORK**

## **ROTARY PARKING SYSTEM**

### **(LAHORE) PROJECT**

**SIKA VISCOCRETE TECHNOLOGY USED AT ROTARY  
PARKING SYSTEM (LAHORE)**

# ROTARY PARKING SYSTEM (LAHORE) PROJECT

## THIRD GENERATION SUPERPLASTICIZER

### Project:

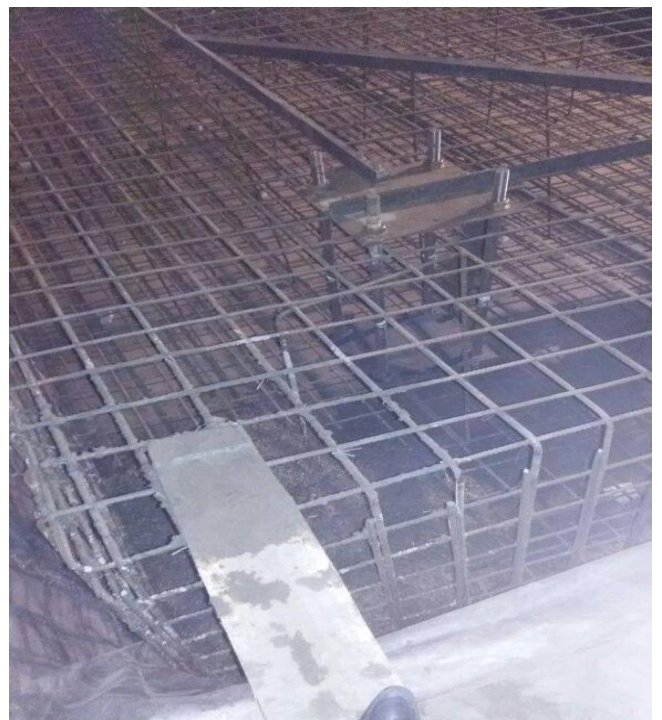
Lahore currently with a population of 5.143 million is the second largest and most populous city in Pakistan, and the 32nd most populous urban city in the world. A large number of people in Lahore have their own cars and that is why it has become difficult for them to find appropriate places for parking their vehicles. From the large shopping malls to a small juice corner, you will find parking issues almost every corner of the city. Keeping these issues in mind, the government decided to install rotary parking system in Lahore. Modern Rotary Parking System has been established at Ferozepur Road, Ichhra. These machines feature multiple levels for carrying the cars. On each level, twelve cars can be parked and each machine will facilitate hundreds of drivers daily.

### Project Requirements:

State of the art rotary parking system did not only reduce the space required for parking the cars it also, provided an automatic method to pass cars from one level to the other. After installing first rotary parking system, The Lahore Parking company(LEPARK) plans to install five more such facilities. The system allows 12 cars to be parked in the space of two vehicles. LEPARK required an early strength of 4500 Psi in 12 hours that too particularly in winter season was required for the concrete foundation of rotary parking. Out of which Sika managed to achieve the strength of 3500 psi even under difficult circumstances. Client demanded a product that could substantially reduce the water content of the mix and enhance the early strength of concrete upto maximum overnight so the work with steel structure could be started the very next day.

### Sika Solution:

Strength gain is a present and continuous challenge in concrete technology and the construction business. All participants in the construction process desire achievement of sufficient early strength to allow formwork removal as quickly as possible. In order to meet this particular requirement of Client Sika suggested Sika ViscoCrete- 20 HE a third generation superplasticizer for concrete and mortar. Sika ViscoCrete-20 HE is especially suitable for the production of concrete mixes which require high early strength development, powerful water reduction and excellent flowability. Being a high performance superplasticizer it pronounces increase in the early strength development, resulting in very economic stripping times for pre-cast and normal concrete.







**Project Name:** Rotary Parking System  
(Lahore) Project  
**Client:** Lahore Parking Company  
**Consultant:** Technical Altec Engineering  
**Contractor:** ESP (Enterprises Solution of  
Pakistan)