# Parco, Oil Refinery
# Multan, Pakistan

## Sika Sealing and Bonding Solution
## Sikaflex PRO-3 iCure



## Parco Oil Refinery– DHDS Plant
### Sealing and Bonding of Concrete floor panels

**Project:**
Parco Oil Refinery, located at Muzaffargarh, qasba Gujrat has major business activities related to refining, transportation, storage and marketing. Being one of the key players of country's strategic oil supply and logistics, its existence and effective functionality is imperative. The concrete floor at Diesel Hydro Desulphurization Plant of the refinery was previously bonded by polysulphide based hot applied bitumen which washed away and left the surface cracked, rigid and also resulted in fungal growth and rusty steel in concrete.



**Project Requirements:**
The nature of DHDS Plant makes it necessary for the floor to be flexible and possess movement capability to avoid cracks and debonding due to movements in refinery floors as well as resistance against petroleum products during spillovers. The project area of application at DHDS Plant was 6500 RFT and had to be completed in two months time. Therefore, the project started in Dec, 2012 and was completed in January, 2013.

**Sika Solution:**
Sika Sales team approached the client and provided latest technology solution Sikaflex PRO-3 iCure which is 1-part moisture curing, elastic joint sealant with high mechanical resistance based on polyurethane properties. The latest iCure technology replaced the two component polysulphide product. The hassle of mixing and application was eliminated and the following properties were achieved.

Elongation at break – 700 %
Movement capability – 25 %
Elastic recovery – 80%
Bubble free curing
Mechanical and Chemical Resistance according to DIBT guidelines

Sika Solution provided effective sealing of concrete floor panels within the stipulated time frame.

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| Project Name: | **Parco Oil Refinery** |
| Project Owner: | **Pak-Arab Refinery Limited** |
| Project Consultant: | **Pak-Arab Refinery Limited** |
| Contractor: | **Al Qasim Enterprises** |