SIKA AT WORK
BANGALORE METRO RAIL CORPORATION PROJECT
BENGALURU

REPAIR OF LEAKING PRECAST SEGMENTAL JOINTS OF TUNNEL AT BANGALORE METRO RAIL CORPORATION USING SIKA INJECTION SYSTEM
SIKA INJECTION SYSTEMS AT BANGALORE METRO PROJECT
REPAIR OF LEAKING PRECAST SEGMENTAL JOINTS

Bangalore metro rail corporation constructed the metro lines covering 42.30 km. This lines connect east west corridor & north south corridor. From the total length 8.83 km constructed below ground. There are total 40 stations including 7 underground station.

Project Requirements
The underground tunnel was constructed with precast concrete segment. Through the joints the water was seeping through. The challenge was to stop the ingress of water through the joint & make the tunnel watertight.

Sika Solution
Sika was considered as a preferred solution provider in this project due to the long term experience in waterproofing injection. Based on the requirement, Sika recommended Sika® Injection 101h, A fast reacting Polyurethane (PU) foam to instantly stop the flow of water & then Sika® Injection 201CE, a flexible Polyurethane (PU) resin to give a permanent watertight structure. With the help of this advanced injection technology from Sika, the applicator successfully executed the repair work of the leaking precast segmental joints in the 4 km long tunnel. Apart from supplying the material, Sika also introduced a trained and experienced application partner with the back up of Sika training and technical audit at the job site. With the help of this state of the art Sika Injection solution, the complete stretch of 4km of the tunnel was successfully executed and handed over within stipulated time to the fullest satisfaction of the main contractor and the owner.

Sika Products
- Sika® Injection 101h
- Sika® Injection 201CE

Project Participants
Client: Bangalore Metro Rail Corporation Limited (BMRCL)
Contractor: Continental Engineering Corporation (CEC)
Applicator: Aquatech, Bangalore.
Sika Solutions for Every Construction

Concrete  
Waterproofing  
Refurbishment  
Flooring  
Sealing & Bonding  
Roofing

SIKA - THE CUSTOMISED SOLUTION PROVIDER
Sika’s innovative ideas and expertise in evolving quality products has been a hallmark in the history of construction chemicals. From hundred years Sika is consistently serving the construction industry with its pioneering technology and commitment.