



Dubai Metro



ABOUT THIS PROJECT:

Market Segment:
Tunnels

Client:
Roads & Transport
Authority (RTA),
Government of Dubai

Products Used:
Xypex Concentrate

Location:
Dubai, United
Arab Emirates

General Contractor:
Japan-Turkey Metro
Joint Venture

Engineer:
SYSTRA / Parsons

THE PROJECT

The Dubai Metro Red and Green Lines form a major part of Dubai's urban transportation network, incorporating both elevated and underground infrastructure.

Following construction, deterioration was identified in concrete surrounding channel drains within sections of the tunnels. These areas are subject to persistent moisture and water exposure, creating the need for additional protection of the existing concrete.

THE XYPEX SOLUTION

Xypex Concentrate was selected to provide additional protection to the concrete in and around the tunnel drainage channels.

The treatment was applied to approximately 3.5 km of channel drains across the Red and Green Line tunnels. Xypex's crystalline technology works within the pores and capillary tracts of the concrete to help resist the penetration of water and other liquids.

The system provided a practical solution for protecting the existing concrete without requiring replacement of the affected sections.

THE RESULT

The Xypex application provided additional protection to concrete exposed to the demanding moisture conditions within the tunnel drainage system.

According to the original project record, the Roads & Transport Authority was satisfied with the performance of Xypex and recommended its consideration for future applications.

