



SIKA AT WORK

CITY RAIL LINK, AUCKLAND CBD

CONCRETE

BUILDING TRUST



CITY RAIL LINK, AUCKLAND CBD



PROJECT DESCRIPTION

D walls to be constructed either side of track tunnels on the City Rail Link project

PROJECT REQUIREMENT

The concrete required had to be designed for minimal bleed due to the hydrostatic pressures when pouring deep and large diameter piles or walls.

CHALLENGES

- The concrete specifications were very specific: 40MPa 10mm concrete with 600 - 650mm spread (240mm slump)
- 20ml maximum bleed under pressure
- The concrete had to stay plastic for 2-4 hours
- Maximum 70deg concrete temperature
- The flow also had to meet a stringently specified time for the slump cone

SIKA SOLUTION

A mix design was trialed at Allied Concrete's Penrose lab using Sika admixtures to achieve the required bleed, temperature and slump

PRODUCTS USED

- SikaTard®-930
- Sika ViscoCrete®-5-555
- Sika ViscoFlow®-15

PROJECT PARTICIPANTS

Product Specifier:	Allied Concrete
Main Contractor:	Mc Connell Dowell
Sika Contact:	Don McPike



Scan QR Code for more Concrete information or visit www.sika.co.nz

Sika (NZ) Ltd

Po Box 19192
Avondale · Auckland
New Zealand · 1746

Contact

Phone 0800 745 269
Fax 0800 745 232
www.sika.co.nz

BUILDING TRUST

