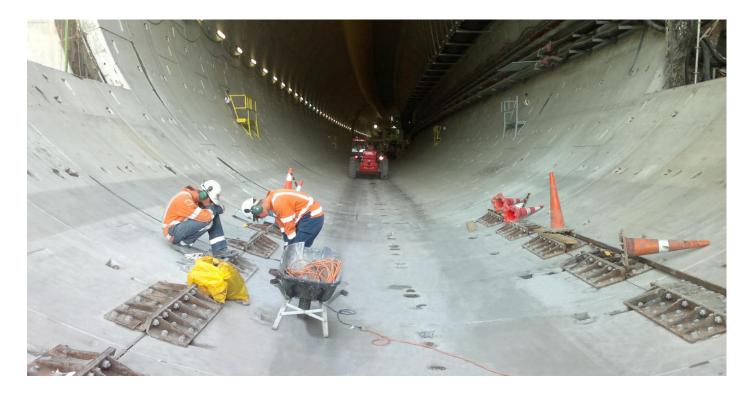


SIKA AT WORK WATERVIEW CONNECTION TUNNELS, NEW ZEALAND

SIKA CONCRETE ADMIXTURES



WATERVIEW, AUCKLAND, NZ



PRODUCT DESCRIPTION

Two new, three lane bored traffic tunnels each approx 2.4km in length complete the Western Ring Route of State Highway 16 and State Highway 20, providing an alternative to State Highway 1 through Auckland City.

PROJECT REQUIREMENT

Concrete tunnel lining segments needed to be cast, cured, lifted and stored in quick succession as the tunnel boring machine was installing them at the rate of six every 24 hours.

CHALLENGES

- Sika was tasked with formulating a concrete mix design to allow for mass and rapid production of the precast segments that make up the tunnel walls
- These were sequenced elements that were placed by the tunnel boring machine during the operation and needed to be individually numbered to ensure alignment
- The casting and lifting times were short due to rapid contract progression

SIKA SOLUTION

Sika Concrete Admixtures

PRODUCT USED

Sika Viscocrete WV = 93,750L

PROJECT SIZE

24,040 Segments x 10.5 tonnes each

PROJECT PARTICIPANTS

Main Contractor: Specialist Contractor: Sika Contact: Well Connected Alliance Wilson Precast Well Connected JV Don McPike / Phil Shieffelbein

Sika (NZ) LTD

PO BOX 19192 Avondale, Auckland 1746 New Zealand

Contact

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

