



Photograph: Colin McLellan

SIKA AT WORK

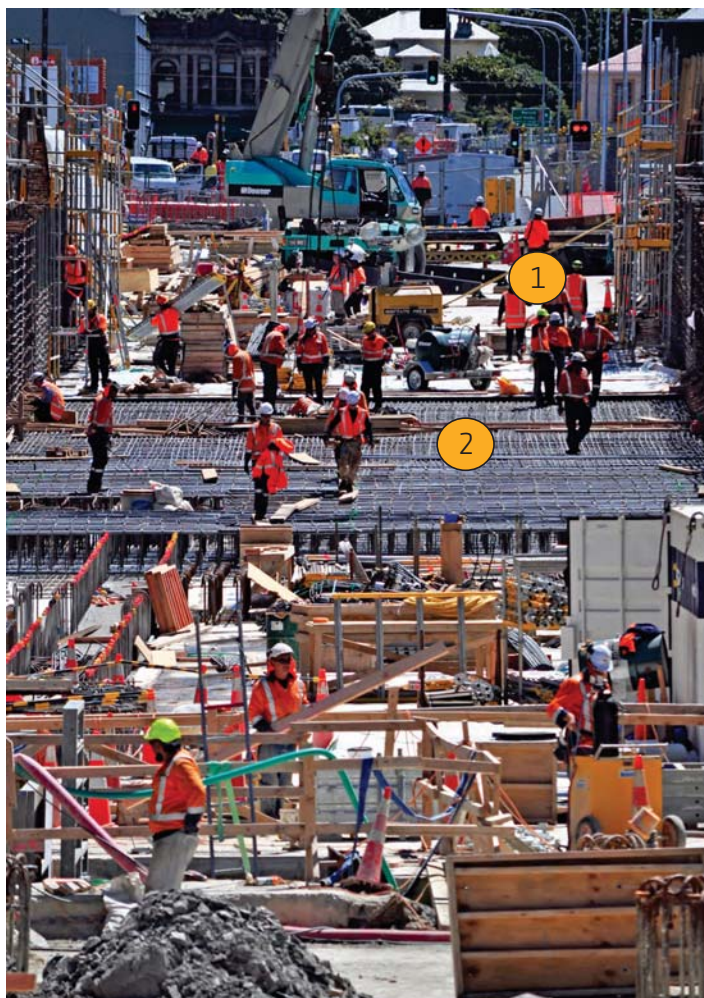
ARRAS TUNNEL PROJECT MEMORIAL PARK, WELLINGTON

CONCRETE: Sika® Control 40

BUILDING TRUST



ARRAS TUNNEL PROJECT MEMORIAL PARK, WELLINGTON



1. First floor slab in place 2. Reinforcing for the next floor slab

PROJECT DESCRIPTION

The tunnel through Wellington's memorial precinct opened to traffic on September and is named Arras Tunnel for the wartime efforts of New Zealand miners in the French town of the same name. Pukeahu National War Memorial Park was built on top of the tunnel as the Government's key project to commemorate the centenary of the First World War.

The National War Memorial Park was designed and built by an alliance team consisting of NZTA, Downer, HEB, Tonkin & Taylor and URS.

The underpass is a reinforced concrete structure around 280m long and allows the three lanes of SH 1 to be placed underground from Sussex Street to Taranaki Street. This allowed the National War Memorial Park to be built above.

PROJECT REQUIREMENT · CHALLENGES

- Low shrinkage concrete (up to 750 micro strain) was specified to cast the walls, floor and roof of the structure in situ
- Allied Concrete performed their own 'in house' testing to determine what dosage rate of Sika Control 40 should be used to meet the requirements of the concrete specification



1. Tunnel roof taking shape 2. Sika Control 40 was used to cast the walls

PROJECT SIZE

\$126 million

SIKA SOLUTION

Sika Control 40 enabled the specified shrinkage requirement to be achieved.

SIKA PRODUCTS

Sika Control 40 (approx. 23,000 litres)

PROJECT PARTICIPANTS

Product Specifier: Allied Concrete

Main Contractor: Memorial Park Alliance

SIKA (NZ) LTD
PO BOX 19192
Avondale · Auckland
1746 · New Zealand

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

BUILDING TRUST

