



SIKA AT WORK

SIKA PRECAST TECHNOLOGY FOR THE WALL STREET DEVELOPMENT

CONCRETE: Sika ViscoCrete®-2100

BUILDING TRUST



SIKA PRECAST TECHNOLOGY FOR THE WALL ST DEVELOPMENT



Because of the early strength achieved with Sika ViscoCrete-2100, the evening lifting and transportation of the panels was executed without damage to the panels or any delays to the programmed road closure

PROJECT DESCRIPTION / REQUIREMENTS

Stahlton Engineered Concrete Dunedin is contracted to Naylor Love Dunedin to manufacture the precast panels for the city's Wall Street Development. The 10 metre high by 5.6 metre wide panels were too large (in both size and weight) to be stored in Stahlton's precast yard. Therefore, Stahlton Engineered Concrete and their concrete supplier Allied Concrete Ltd decided to pour the panels in the afternoon, lift them from the precast bed straight onto the truck the next day and take them to site for placing.

CHALLENGES · SIKA SOLUTION

High early-age strength was required, therefore a mix design which included Sika ViscoCrete-2100 (NZ) was developed. Sika ViscoCrete-2100 (NZ) is a third generation polymer-based ultra

high range superplasticiser combined with strength accelerating components, and gives high early strength. Panels were poured in the afternoon and tests carried out early the next morning gave strengths of between 35 and 40 MPa. Because of the early strength achieved, the evening lifting and transportation of the panels was executed without damage to the panels or any delays to the programmed road closure.

SIKA PRODUCTS

Sika ViscoCrete-2100

PROJECT PARTICIPANTS

Stahlton Engineered Concrete Dunedin
Naylor Love Dunedin
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