



SIKA AT WORK

FEDERAL STREET UPGRADE

FLOORING: Sikafloor® Car Park Deck Waterproofing System

BUILDING TRUST



FEDERAL STREET UPGRADE



Sikafloor-375, Abrasion layer being applied at the Sky Hotel Entrance



The end result at the Sky Hotel Entrance

PROJECT DESCRIPTION

Federal Street is in the heart of the city centre and is an entertainment hub that attracts city centre workers as well as domestic and international visitors, particularly with the presence of the iconic Sky Tower.

The Federal Street upgrade is part of a wider programme of upgrades that will create a city centre laneway circuit - a walking route with a sequence of public squares and gathering spaces all the way from Aotea Square to the Waterfront.

Around 5,500 people use this stretch of street daily but the environment was not pedestrian friendly with narrow footpaths, no public seating and a limited number of places to eat, drink and shop. Federal Street was often used as a short-cut by cars and buses and also acts as a long-term parking area for coaches. The plaza area around the Sky Tower was cluttered and featured several barriers that blocked views and discouraged public access and enjoyment of the space.

PROJECT REQUIREMENT · OBJECTIVES

The aim was to have a Federal Street area that:

- Integrates with other city centre upgrade and transport projects.
- Provides an intimate, high quality pedestrian-focused street that encourages pedestrian activity.
- Supports local businesses and attracts investment by providing an appropriate level of vehicular movement and servicing activity.
- Is a distinctive destination entertainment precinct with a unique mix of retail, cafes, restaurants and entertainment venues
- To remove existing road surface, footpath pavers and to install new paving and waterproofing membrane, to protect under ground parking and retail space from water damage.

This project was jointly funded by Auckland Council and SkyCity. The project size was 4500m².

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CHALLENGES

- The first car park deck project to be installed over the light weight concrete substrate.
- Weather dependant: Working in outdoor areas, water damage had to be avoided.
- Work environment issue: Keeping the work area clean, avoiding dust, flying objects, damages caused from public littering.
- Delays because of programming issue, isolating access from public and other contractors (the work had to be done in stages).
- Site detail needed to be tailor made specific to site environment.

SIKA SOLUTION

Sika Car Park Deck - Dynamic System

SIKA PRODUCTS

Sikafloor-156, Sikafloor-159, Sikafloor-161
Sikafloor-350 N, Sikafloor-375
Sika Aggregate-501, -508
Concrete Moisture Barrier: Sikafloor-155 WN, Sikafloor-81 EpoCem

PROJECT PARTICIPANTS

Engineer: Jawa Structures
Architet: Boffa Miskell
Main Contractor: John Fillmore Contracting
Specialist Contractor: Chelsea Contracting