

# 3-Storey Home Unit Block Re-levelled

## INDUSTRY

Residential

## STRUCTURE

Apartment building

## PROBLEM

Ground subsidence

## LOCATION

Christchurch, New Zealand

## DURATION / YEAR

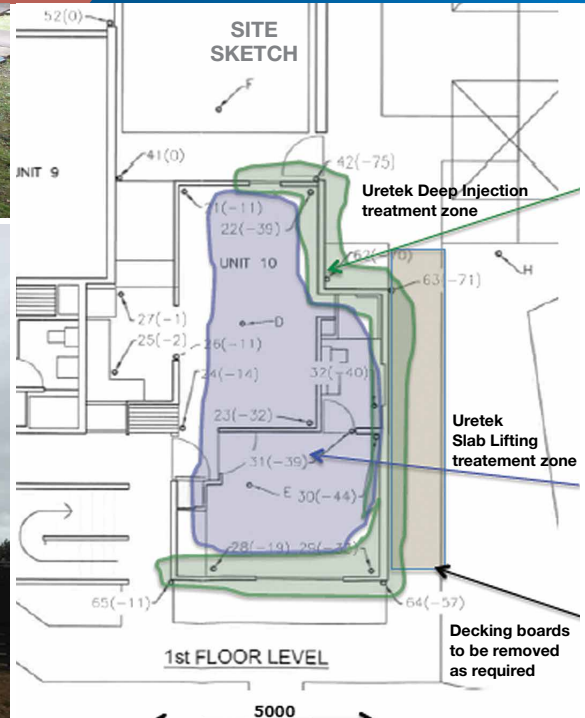
3 days / 2012

## TECHNOLOGY

Uretek Deep Injection  
& Uretek Slab Lifting

## BUSINESS UNIT

Mainmark New Zealand



## Summary

This three-storey home unit block in Auckland had subsided as much as 80mm in some sections. It appeared that a number of large trees on the corner of the site had contributed to the subsidence.

Mainmark re-supported and re-levelled the unit block and the adjacent paving with injection of expanding structural resins.

## Objectives

The main objective was to raise and re-level the three-storey building without disturbing the residents. Secondary objectives were to strengthen the foundation ground and to re-level the pavement.

## Solution

Working with a geotechnical report provided by a consultant to the Body Corporate, Mainmark applied Uretek Deep-Injection and Uretek Deep-Lifting with expanding structural resins to re-support and re-level the external wall footings. Ten external injection points were required.

Uretek Slab-Lifting was used to re-level and re-support the slab flooring. This was carried out from 27 internal

injection points. The injection zones are shown on the site sketch.

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Above: Pavement slabs were raised and re-levelled as part of the project.