

MULTIPLEX CONSTRUCTIONS (NZ) LIMITED

CONSTRUCTIONAL ENGINEERS AND CONTRACTORS

LEVEL 4
48 COURTHOUSE LANE
AUCKLAND, NEW ZEALAND

DIRECTORS:

N.R. HENDERSON CHAIRMAN
S.C. BREALEY MANAGING DIRECTOR
D.R. ASHBY
B.G. CARGILL
S.J. GRAY
R.E. LOCKETT
A.T. ROBERTS

P O Box 3100, SHORTLAND STREET
AUCKLAND, NEW ZEALAND

TELEPHONE: (09) 377 9483
FACSIMILE: (09) 377 9471

Address 1
Address 2
Address 3
ADDRESS 4

29th August 2003

To whom it may concern,

Multiplex Constructions (NZ) Limited have utilised Xypex Admix in conjunction with Kuniseal waterstop as a successful waterproofing system.

This has primarily involved basement carparks in Auckland, over the past 4 years, many of which have been in a marine environment.

This system has realised a number of benefits, such as:

- Cost effective solution
- Time saving
- Health and safety (in particular at retaining wall situations on boundaries)
- Doing what it purports to do (i.e. provides waterproofing solution).
- Doesn't have temporary protection and not affected by other trades (i.e. issue of puncturing if membrane used)

Some of our projects which have used Xypex are;

Metropolis Apartments – Xypex Admix included in the central basement floor slabs of the old Courthouse.

East on Quay – Xypex Admix added to basement precast panels and stitch joint concrete.

Viaduct Point Apartments – Xypex Admix added to basement precast and stitch joint concrete with Kuniseal waterstop placed on associated construction joints.

Lighter Quay Apartments Stage 1 and 1b – Xypex Admix added to all basement precast, stitch and floor slab concrete in conjunction with Kuniseal on associated construction joints to provide a watertight basement on a site with tidal pressures and contaminated fill. Admix was also included in the podium topping for economical temporary waterproofing.

The ability to add durability to the concrete to protect reinforcing steel from marine chlorides and other potentially aggressive fluids, has also played a part in the selection of Xypex, especially when used at Lighter Quay.

Xypex Admix and/or Kuniseal have proven effective in a variety of lift pits where precast and insitu concrete is utilised.

In summary, Multiplex Construction (NZ) Limited and the design consultants working with us on the above projects have found the appropriate use of Xypex Admix and/or Kuniseal waterstop to provide an economical, effective alternative to traditional means of waterproofing, without compromising the quality of the waterproofing required.

Yours Sincerely

Multiplex Constructions (NZ) Limited

Jamie Vallance

Senior Design Manager

