



DAKOTA HOTEL, GLASGOW

CONVERSION OF BASEMENT CAR PARK INTO HABITABLE SPACE



Replacement of the car park slab with a new waterproof concrete slab. Waterproofing of the existing concrete walls to upgrade from a Grade 2 to Grade 3 (BS 8102:2009) habitable environment.

THE CHALLENGE

Originally designed and constructed as a basement car park for the offices above, the building was renovated and converted in to a luxury hotel. The car park became a habitable space including the kitchens and associated storage. A waterproofing solution was required for both the concrete walls that were to remain and for a new replacement concrete slab.

THE XYPEX SOLUTION

Xypex utilises the same technology whether it is applied as an admix in new concrete, or as a coating to existing concrete of any age. This makes it possible for seamless waterproofing between new build and existing retrospectively waterproofed concrete. Xypex Admix was used in approximately 135m³ of new concrete. Over 300m² of existing concrete was coated with Xypex Concentrate.

- | | |
|------------------------------|--|
| Xypex Admix C Series | - New slab |
| Xypex Concentrate | - All joints, including between the new slab and the existing concrete.
- All existing external concrete walls of the basement. |
| Hydroswell Bentsotrip | - All construction joints and all joints between the new concrete slab and the existing concrete walls. |

THE RESULTS

The minimum level of performance Xypex achieved, whether applied as Admix or as a Concentrate slurry coat, is Grade 3 (BS 8102:2009).

The use of Xypex on this project ensured the required level of protection was reached. In addition, all waterproofing could be covered under a single warranty.

PROJECT TYPE:

New build / refurbishment

PROJECT LOCATION:

Glasgow, Scotland

PRODUCTS SPECIFIED:

Admix

Concentrate

Hydroswell Bentsotrip

