

# BELZONA REPAIRS SPALLED CONCRETE

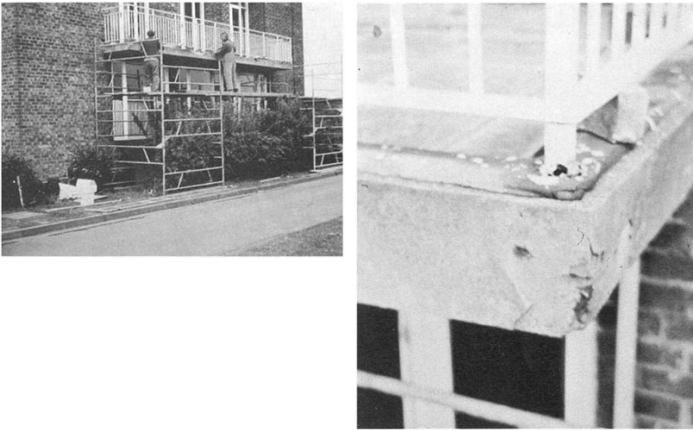
ID: 1442

Industry: *Buildings & Structures*  
 Application: *WPA-Wall Problem Areas*  
 Substrate: *Reinforced Concrete*  
 Products: *\* Belzona® 4111 (Magma Quartz) ,*

Customer Location: *Community College, Newcastle*  
 Application Date: *1980*

## Problem

*Concrete balcony had suffered from spalling due to the detrimental effects of the environment and concrete cover below the minimum for protection of the reinforcing bar.*



## Photograph Descriptions

- \* Community College in 1980 - Spalled Concrete Community College (shown in image 1-2) ,
- \* The revisited site in January 2020 after 40 years in service (image 3-4) ,

## Application Situation

Local authority housing stock with concrete cantilever balcony construction and steel handrails.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet RPA-2. Lightweight Belzona® 4141 system would now be specified as it requires no permanent shutter/formwork following Belzona Know-how System Leaflet WPA-4. This would have made the job even easier to carry out.

## Belzona Facts

The initial application was quick and eliminated any potential safety risk due to unsafe concrete falling from the two storey building. Twenty seven years later, Belzona revisited the application to find that it was still in excellent condition with no signs of further spalling, carbonation, shrinkage or cracking. Now 40 years later Belzona has revisited the site again, and there are still no signs of

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 FS 695214  
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further damage.

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