

Belzona chosen for Rope Access repairs to huge concrete chimney

ID: 9175

Industry: Local Authorities & Municipalities

Customer Location: Nottingham

Application: WPA-Wall Problem Areas

Application Date: October 2023

Substrate: Concrete

Products: Belzona 4141 (Magma-Build), Belzona 4911 (Magma TX Conditioner)

Problem

Spalling concrete was identified on a 300' concrete chimney during a rope access inspection. The concrete was unstable in certain areas and the Rope Access company's report highlighted numerous repair areas to make the structure safe and prevent falling debris from height



The work and scope made this impossible to shutter or to scaffold

Rope access and a lightweight repair polymer was the most preferential choice due to access difficulties

Completing the works

A rope access company who have worked with us many times, safely completing this difficult work

Application Situation

It would have been almost impossible, and certainly not cost effective, to erect scaffolding on the 300' Concrete chimney Structure. It was therefore proposed by the facilities estates to use a Rope Access company known to them who had previously worked on the site using Belzona products.

The works were carried out in October and made safe various areas of spalling, loose and friable concrete areas. These areas could dislodge and come away from the Chimney, falling up to 100 meters

Application Method

All Risk assessments and method statements were produced by the rope access company, detailing information found with the Belzona 4141 Safety and production literature.

Access was gained using skilled IRATA Level 3 Rope access engineers who have been trained in the application of Belzona materials. The areas were safely prepared prior to the application of Belzona 4911 (Magma TX Conditioner)

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

Belzona products are
manufactured under an ISO
9000 Registered Quality
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Whilst the conditioner was still wet, the Belzona 4141 (Magma-Build) could be applied in one hit by the Rope Access team, saving transition time from floor to target areas

Belzona Facts

Using scaffolding and a heavier repair medium would have been extremely costly. If a repair material which needed shuttering had been used, the costs would have been astronomical due to access set up (Scaffold) shuttering, curing time and shuttering removal. Belzona 4141 (Magma-Build) enabled the end client to benefit massive cost savings due to the lightweight, rapid curing Belzona 4141 (Magma-Build) which was used, along with the skill and experience of the rope access company

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