

Boiler House External areas

ID: 9873

Industry: Buildings & Structures
Application: FPA-Floor Problem Areas
Substrate: Concrete
Products: Belzona 3131 (WG Membrane), Belzona 3931 (WG Membrane Conditioner), Belzona 4131 (Magma-Screed), Belzona 4911 (Magma TX Conditioner)

Customer Location: Stamford
Application Date: March 2025

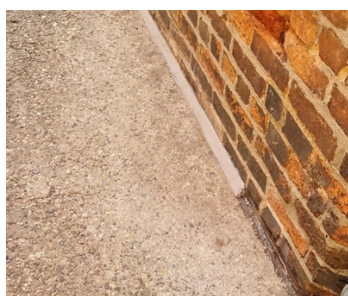
Problem

This is an unusual area, in that it appears to be a floor area, but is also a roof area to an underground boiler house. The client was having issues with water ingress, mainly from the joints above the boiler house.

A scope was suggested to flaunch the interfaces between the concrete floor and brickwork areas, followed by 2 coats of Winter Grade Belzona 3131



Showing areas of possible leakage through to the underground boiler house



Flaunch applied at 35mm 45 degrees slope to ensure there is no square edge termination point to the Belzona 3131



All flaunching completes



Completed with 2 x coats Belzona 3131

Application Situation

Numerous attempts had been made to seal the water ingress, but all in vain. Belzona have been supplying the Estates Dept at the school with various solutions and have become a trusted supplier of quality products which always deliver.

Rather than spend more time trying other repair methods, Belzona were asked to spec up a solution which would be durable and effective

Application Method

Remove all rubbish and sweep the area clean

Carry out any bricklaying works across door openings

High Pressure wash all target areas including 100mm upstands

Ensure all target areas for Flaunch and coating are clean dry and firm

Mask all flaunch areas to effect a 25mm, 45 degree flaunch to floor/wall interface

Mix together the 2 components of the Belzona 4911 conditioner and apply to masked target areas

Mix and apply Belzona 4131 and compress back to the required sized flaunch, immediately removing the masking tape. Allow to cure (see IFU for expected curing times)

Ensure all target floor areas are clean firm and dry.

Mask upstands to wall of 100mm

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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Apply Belzona 3931 to as directed in the Belzona 3131 IFU and allow to become touch dry (1-4 hours)
Mix and apply first coat (Dark grey) of Belzona 3131 as per IFU and incorporate the Belzona 9361 reinforcing sheet
As soon as it is possible to apply 2nd coat of Belzona 3131 (Light grey), do so, within 48 hours

Belzona Facts

Alternatives had been tried in the past, but had always failed. Belzona like to offer a solution that lasts and only needs to be done once. This was sought by the client who, on follow up some 8 months later is still very happy with it. It was self applied by their own team, negating the costs of contractors

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