

Ronacrete and Cemplas rescue fire station buildings

Submitted by: Ronacrete Ltd

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The London Fire & Emergency Planning Authority appointed Cemplas Waterproofing and Concrete Repairs Ltd as the principal contractor to undertake concrete repair, brick repair and rendering works to the training tower and rear boundary walls of Croydon Fire Station. Cemplas completed the project using a variety of products selected from Ronacrete's Concrete Repair & Protection and Waterproofing & Tanking ranges.

Training tower

Cemplas carried out investigation works before removal of defective concrete from the training tower. Steel reinforcement bars were cleaned, and Ronacrete Standard Primer was applied to the prepared bars. The areas to be reinstated were primed with Ronacrete Standard Primer, and the concrete was repaired using RonaBond Concrete Repair Mortar (<http://www.concrete-repair-and-protection.ronacrete.co.uk/details/16824/ronabond-concrete-repair-mortar.4220/>). Ronacrete Curing Membrane (<http://www.commercial-industrial-flooring.ronacrete.co.uk/details/16824/ronacrete-curing-membrane.12057/>) was spray applied to the fresh mortar, to prevent rapid surface moisture loss.

Rendered rear boundary wall

Prior to undertaking brick and render repairs to the rear boundary wall, Cemplas cut back the vegetation and cleaned the wall, to remove all surface dirt and debris. All cables were temporarily removed from the wall surface, existing render was hacked off, and the wall was dismantled. The original bricks were re-used to rebuild a 2m x 1.5m section of wall at parapet level. The wall was rendered with Ronafix Mix A Weatherproof Render (<http://www.waterproofing-and-tanking.ronacrete.co.uk/details/16824/ronafix-pre-packed-render-screed.7904/>) incorporating a bell cast drip. Ronafix Slurry Coat (<http://www.concrete-repair-and-protection.ronacrete.co.uk/details/16824/ronabond-slurry-coat.5721/>) was applied to the prepared wall. Two coats of RonaBond Nigatex (<http://www.concrete-repair-and-protection.ronacrete.co.uk/details/16824/ronabond-nigatex.4994/>), high opacity, water-based coating were applied to the finished surface.

Unrendered rear boundary wall

Cemplas cut back the vegetation and cleaned the wall, to remove all surface dirt and debris. Joints were raked out to a depth of 25mm, and re-pointed using a 4:1 sand and cement mortar. A section of bowed wall at parapet level was dismantled and rebuilt. Ronafix Slurry Coat was applied to the prepared wall and the finished surface was coated with RonaBond Nigatex.

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