



Case Study

Hospital Car Park, Staffordshire



Cemplas Waterproofing and Concrete Repairs Limited were approached by Laing O'Rourke to provide a remedial solution where heavy use of a Hospital Car Park had caused excessive wear to 3200m² of the open top deck of the concrete slab.

To meet the criteria of creating a new wearing surface suitable for heavy vehicular traffic, but at the same time keeping the structural load to a minimum, the solution was to grit blast the car park slab, and reinstate using a mix design based on a Polymer SBR modified sand and cement screed, incorporating 6-3mm granite chips which would be monolithically bonded with a Cement/SBR primer to the prepared slab. As a long standing preferred contractor of Ronacrete Ltd, Cemplas chose to use Ronafix SBR within the mix design.

Working in conjunction with Laing O'Rourke and their clients appointed Engineer, a method was agreed upon and 45m² bays were created by drilling and fixing 20mm battens. The Cement/SBR priming coat was applied, and whilst it was still wet/tacky the screed was laid on to the primer to create the monolithic bond.

To speed up the work progress the screed was laid to every other bay and ruled off to at an average thickness of 20mm. Before the applied screed was allowed to set, a 'tamped' finish was created to provide an acceptable degree of slip deterrent for pedestrians, and a steel float finish was applied around the edges of the bays. The drainage channels around the perimeter of the slab were laid to falls by the same method, but without the need to incorporate any granite chips as the channels would not be taking any vehicle traffic.

NB: Health and safety is very important to Cemplas, and the requirements of wearing PPE is always strictly adhered to when Cemplas are working on site. In this instance, we feel it is extremely important to note that the work undertaken on this project was not classed as a Construction site, and therefore PPE was not a requirement for our any of operatives.

For further details contact:

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