



PROJECT The Salt Barn Telford

DATE August 07

CUSTOMER McPhillips
(Wellington) Limited

THE PROJECT

The Salt Barn, in Telford, Shropshire was a project taken on by Amey Mouchel in June 2007. The design of the floor for this project was down to the principal contractor who in turn sub-contracted the building works to McPhillips Limited.

Salt Barns are designed according to The Highways Agency design specification and are very prescriptive in their demands, calling for there to be no steel in the structure due to the risk of corrosion, and strict rules in regard to saw and day jointing detail.

This therefore eliminated the use of the two conventional methods of floor construction, steel fabric and steel fibre within this application. Control shrinkage movement within the slabs additional design criteria therefore has to be considered in respect of pour bay sizes and Saw and Day jointing details.

THE SOLUTION

Due to the corrosive environment of Salt Barns a problem formed in that no conventional concrete flooring system could be placed. The inclusion of steel and normal saw cutting detailing of the floor could cause long term durability problems with the Salt Barn floor.

McPhillips Limited when presented with Extensia™ by Lafarge as a viable option, the key principles of the product offered the immediate advantage of needing no steel to control reinforcement, therefore no corrosive problems as well as advantages within construction programme.

The very fact of this controlled shrinkage saved time on the cutting detail of the floor saved McPhillips time and money as the slab only needed to be cut into four large quadrants.

When McPhillips took on this project they were aware that there could be an issue with the floor slab, as no concrete would do the job without the inclusion of a central day jointing system and extensive saw cutting.

Extensia™ not only gave the contractor a solution to the design problem but delivered a floor fit for purpose in a reduced time frame.



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MAIN CONTRACTOR



SUB CONTRACTOR COMMENTS



As market leaders in construction of concrete floors and due to our experience and professionalism in this field Lafarge chose to work with us as their premier approved contractor installing Agilia screeds in the UK, as well as allowing us to be involved in the company development of Extensia.

The combination of Lafarge's innovation skills and Stuart's dedication to excellent customer service work in unison, allowing Stuart's customers to receive first class products and services from a partnership they can trust.