

NCC in Action

NCC Materials Consultants and Specialist Distributors



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From basement waterproofing through all types of flooring, to the repair, protection and waterproofing of all kinds of buildings and civil engineering structures.

In our latest newsletter we are again showcasing a selection of recent projects where **NCC** has been involved. From both of our offices and depots, **NCC** advises on the selection of the right materials, plus we always ensure that they are supplied on time and at the most competitive price.

Why not call us today or visit our website 'nccinaction.co.uk' and see how **NCC** can assist you on your latest project and help solve your building problems.

Since combining our companies into the single entity **NCC** and launching our new website 'nccinaction.co.uk', we have seen a real growth in our business right across the North of England.

IVAX Pharmaceuticals

'State of the Art Facility Gets Floors from NCC'



New Sikafloor 261 production area floor at IVAX Pharmaceuticals in Runcorn

P J McGrath and Sons, specialist flooring contractors, working with the support of NCC, have now completed more than 3,200 square metres of high performance hygienic flooring in Runcorn. This was for leading generic pharmaceuticals manufacturer IVAX Pharmaceuticals

at their 'state of the art' modern product facility in Preston Brook.

During the last three years P J McGrath have applied 1,200 square metres of high tolerance clean room floors and with the latest phase completed, there are also 2,000

square metres of hygienic and easily cleaned production and packaging area floors, all using advanced Sikafloor systems supplied by NCC.

This latest phase was completed using a bright blue Sikafloor 261 self levelling resin, finished with a silk matt Sikafloor 356N top coat, to achieve a uniform easily cleaned and level surface.

**NCC Provide a Free
Technical Advisory Service**

Sikafloor 261 is a solvent free epoxy flooring resin that is available in almost any colour and is ideal for providing a durable seamless surface. Sikafloor 356N is a solvent free polyurethane resin top coat which provides the silky matt finish.

Slip resistance and non-slip profiles have also been included for safety reasons where necessary.

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Cullercoats Beach

‘NCC Quick Steps to Cullercoats Beach’



Final sealing with Sikaflex 11FC adhesive sealant to the nosings



The public access steps down to Cullercoats Beach in Tynemouth had deteriorated due to wear and marine exposure over time. This was giving North Tyneside Council cause for concern over continuing to ensure public safety. Therefore St

Astier Specialist Contractors Limited were appointed to undertake repairs, plus an overall refurbishment and upgrading of the steps. Together with their specialist materials supplier NCC, they developed the ideal repair and upgrading system.

Firstly the concrete steps were thoroughly cleaned by waterjetting and mechanically, then the damaged areas were broken out. These were repaired to their original line and profile with Sikadur 41, a high strength epoxy repair mortar.

NCC Supply Non-Slip Flooring Solutions

Then to improve safety and slip resistance, Ronacrete's Ronadeck Tacktile preformed, non-slip nosings were mechanically fixed to each step. These high visibility, bright yellow profiles, were also bonded and sealed to prevent any future movement.

This was achieved using Sikaflex 11FC, an elastic waterproof adhesive

and sealant with permanent elasticity.

All of these materials were readily available and supplied by NCC from stock at their Newcastle depot that services the North East of England.



Mechanical fixing of the nosings

Hoyleake Station Bridge

‘NCC Make Sure There Are No Holes in This One’



Refurbishment works partially completed on the footbridge



Shortly before this years Open Golf Championship at Hoyleake, Network Rail were refurbishing the station and its associated structures. Construction Techniques Limited were

the specialist working for the framework contractor.

The concrete footbridge from the station, over the railway towards the golf course, was suffering from

localised concrete spalling over corroding reinforcing steel. This was due to progressive carbonation and deterioration which had to be halted and future protection provided, all as part of the overall station refurbishment programme.

Construction Techniques decided to use a full Sika Concrete repair and protection system provided by their specialist materials suppliers NCC in Chorley.

This involved using specialist access to the structure with protection for passing trains that had to maintain a normal timetable throughout.

Firstly the concrete was thoroughly cleaned, then

Sika MonoTop repair and levelling mortars were applied. Then Sikagard Elastocolour coating was used overall, to provide the long term crack bridging protection and anti carbonation resistance.



The elastic protective coating surface

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Birkenhead Rail Shed

'Rail Fixing 'Package' from NCC'



The raised tracks on the new baseplates in the train shed

New rail tracks were being installed by Clough Smith Rail Limited at the Birkenhead North Train Maintenance Depot.

Inside the maintenance sheds the raised tracks

had to be fitted with new specially designed base plates. These had to be fixed securely onto the parapet walls of the inspection troughs. All of which presented a problem inside the working sheds.

NCC were consulted for advice on the best fixing approach and appropriate materials selection. From past experience they were able to recommend and supply a complete 'rail fixing package' as a total solution for the contractor.

NCC Provide a 'Full Package' Solution

The baseplates were bedded on high strength Sikadur 41 epoxy repair mortar with four M20 resin fixing bolts in each. Voids in the concrete and spaces around the light fittings were filled using DCP Flo-Grout 3 micro concrete.

The top surfaces were finally sealed and with a non-slip coating from Ronacrete, Ronadeck Fast Grip, a rapid hardening coating system.

All of these materials were readily available and supplied from NCC's Chorley Depot that services the North West of England.



SikaDur 41 epoxy bedding mortar

Transport Authority Footpath

'Tyne 'Ped' is Safe with NCC Support'



The refurbished approach to the Tyne 'Ped' Tunnel

The Tyne and Wear Passenger Transport Authority (TWPTA) : Tyne Tunnels were refurbishing the whole area of the approach to the Pedestrian Tyne Tunnel. The surfaces of both the footpath and the cycle track had deteriorated and were breaking up in places.

This was potentially becoming a safety hazard.

TWPTA engineers contact NCC for advice and assistance in providing a remedial specification to repair the damage and then to provide a durable smooth yet slip resistant and colour designated

surface – green for the cycle path and grey for the pedestrian footpath.

Meldrum Construction Services (MCS) are the TWPTA term contractor and they were instructed to complete the works with NCC's technical and logistic support. The concrete surfaces of the footpath and the cycle track were thoroughly cleaned, then the damaged areas were broken out and replaced with a total of three tons of Fosroc's Patchroc GP, a fast curing patch repair mortar that can be trafficked in two hours.

These clean, repaired surfaces were then sealed and given a slip resistant profile, using Ronacrete's

Ronadeck Fast Grip surfacing system. This hard wearing, fast curing system is available in a wide range of colours including the light grey and green shades required for safe delineation of the pedestrian and cycle traffic lanes.



The completed green cycle track and grey footpath to the 'Ped'

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St Georges Hall

'Liverpool prepares for 2008 with NCC'



The restored South Portico steps at the entrance to St Georges Hall

The well known St Georges Hall on Lime Street, Liverpool, is undergoing major refurbishment in preparation for Liverpool's role in 2008 as the European City of Culture. The structure has actually been called 'the finest neo classical building in Europe' by many experts.

It was originally designed and completed in 1854 by architects Elmes and Cockerell, who had won the opportunity through a competition in The Times. The 'Small Concert Hall' inside was

frequently used then by Charles Dickens himself to present readings of his works.

As part of this refurbishment project, Quickseal Specialist Contractors have worked in partnership with NCC to waterproof the South Portico Steps and to make watertight the three new lift shaft pits. These were being incorporated into the building during the refurbishment works as part of the Council's improved disabled access programme.

NCC supplied more than 200 bags of Don Construction Products (DCP) Flo-grout 1, which they pumped at low pressure into the voids below the steps. These had developed due to erosion over the years. This specialist grouting successfully sealed and waterproofed them, preventing water ingress into the new Visitor Centre that is being created underneath.

The new lift pits in the building were also waterproofed by Quickseal in accordance with NCC's recommendations. This was achieved using the Sika 1 pre-bagged tanking system.



The specialist grouting and waterproofing completed



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NCC are your reliable stockist and supplier of many products that are not readily available or stocked in Builders Merchants. These include Grouts, Concrete Repair Mortars, Floor and Steel Coatings, Waterproofers, Epoxies, Stone Restoration products, Fire Protection Systems and Sealants.

NCC stock and supply materials from all leading construction chemical manufacturers.

For technical advice or a competitive quote and immediate delivery call NCC today!



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