

GEOSYNTHETICS

Case Study Ref: 500

Paving – Rehabilitation Ruddington Town Centre resurfacing scheme

Challenge

Ruddington Town Centre resurfacing scheme comprised of carriageway resurfacing to four busy Town Centre roads showing evidence of reflective cracking as a result of heavy volumes of traffic. All works were to be completed in a 2 week period under local road closures. Nottinghamshire County Council carried out cores on the roads to determine existing carriageway construction and concluded that maximum strength and flexibility would be needed to minimize the re-occurrence of the failures seen in other areas of the town's roads.

Solution

It was decided that a reinforcement grid would improve longevity of the roads whilst complementing the new flexible materials to be laid. After consulting with John Martin (Asphalt Grid Systems) he proposed a grid and bitumen solution to meet the requirements outlined in Notts CC's specification. Asphalt Grid Systems were awarded the works by Lafarge Tarmac on the basis of grid performance and competitive pricing.

Application

The total area of the scheme was 8333m² in four separate sections. Programming restrictions to appease traffic, residents and businesses required Asphalt Grid Systems to undertake multiple site visits, completing each road in sections. AGS Ltd met all expectations, working effectively with the surfacing, civils, and traffic management contractor's onsite. The scheme was praised by the client as disruption to local stakeholders was kept to a minimum. A 200KN Glass fibre reinforcement and bitumen bonding coats were applied to specification by the operatives and machinery on site. No problems occurred and all Asphalt Grid System's operatives adhered to health and Safety requirements set by Lafarge Tarmac at all times.

Project Data

Application: Asphalt Inlay
Location: Ruddington Town Centre.
Products: 200KN
Bond Coat: 160/200 pen Bitumen.
Quantity: 8333m²
Client: Nottinghamshire County Council.
Main Contractor: Tarmac
Date: April 2014

References

Mr Keagan Cooke- Site Engineer, Nottinghamshire County Council:

“I was impressed with the good workmanship and the speed at which everything was organised ready to complete works on site. I would be more than happy to work with Asphalt Grid Systems again in Nottinghamshire”.

Mr Shaun Faulkner- Contracts Manager, Lafarge Tarmac:

“Asphalt Grid Systems were reliable and efficient. The equipment they used was clean and well maintained. I look forward to working with them again”.

Mr Damian Gliddon- Quantity Surveyor, Lafarge Tarmac:

“Asphalt Grid systems delivered a very professional service. All documentation was thorough and the scheme was priced competitively. The work was carried out effectively with no issues on site. I can highly recommend Asphalt Grid Systems to anyone requiring Asphalt reinforcement”.

