nu-flex

Flexible Paving Solutions

CASE STUDY:

Extreme Wet Sites 1

Project: The Valley Of Stone

Construction of porous, flexible surfacing bridleway in extreme wet environments

Client: Lancashire County Council
Procurement: Open Tender
Location: Bacup, Lancashire
Date Undertaken: 2017

PROJECT OUTLINE:

This project required the construction of a shared usage bridleway using our 'nu-flex' recycled, porous surfacing process including the provision of all associated civil engineering work. Our engineering team developed a detailed design solution specifically to deal with the unique circumstances on this site.

This section forms part of a much larger project and focused on one of the low points of the site. The environmental and engineering circumstances were such that this area required a specific design solution. The wet ground conditions were compounded by land water run-off from a high land adjacent to the bridge abutments. Also at this point the bridleway is spanned by a road bridge which lacked any drainage provision, presumably disturbed during the decommissioning of the rail line. The design included extensive excavation and the installation of a new and robust drainage system.

Nu-phalt Contracting successfully construct a shared usage bridleway whilst dealing with extreme land water run-off.
The transformation has been remarkable to the delight of residents and user groups.

PROJECT CHALLENGES:

Environmental – Management against the spread of invasive plant species. Working in extreme conditions.

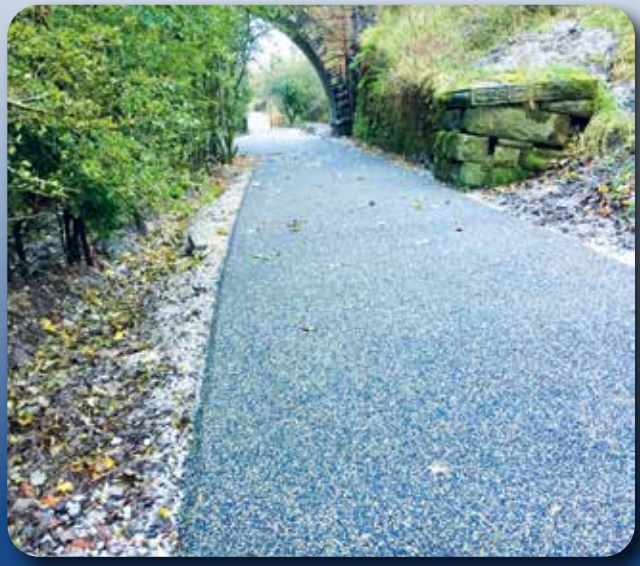
Ecological – The bridleway was known to be a home for bats, nesting birds, amphibians and other animals. Our staff worked in co-ordination with the client's ecologist.

Engineering – Severe flooding from moorlands and compounded by adjacent water courses. Required specific engineering design solutions to ensure the route remains operational in extreme weather conditions.

Operational – Challenging environmental and topographical constraints considered and appropriate solutions agreed and implemented.
Access was restricted and operations could only be fed from one end at a time.

The Client:
'Working with Nuphalt has been excellent, they have a very professional approach and take the time to consider all elements of the project. As anyone who works on these sorts of access projects knows getting the drainage and water management correct is half the battle. Nuphalt took the site and its surroundings into account and came up with the required drainage solutions. This together with the nu-flex surfacing means we have turned what was an extremely muddy and difficult to use route into a great community asset which is going to require a minimum amount of maintenance.' *Tony Lund, Senior Environmental Project Officer*

PROJECT OUTCOMES:
The finished project has attracted large numbers of positive comments from professional engineers to many user groups including; SusTrans, visiting clients, British Horse Society, ramblers, cyclists and other general users.



BENEFITS:
The asset manager and end-users alike have welcomed a number of benefits including;

- Well drained surface due to the porosity of the material
- Easy to repair
- Visually attractive compared to traditional surfacing
- Significant reduction in the effects of ice and snow
- Surface is excellent for horse riders and cyclists
- Innovative recycled material

Duration on site – 10 days
Environmental Benefits – 2,160 recycled tyres used

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