



Charmouth Tunnel, Dorset Tunnel Waterproofing

The Project

From 1831 until 1991, Charmouth Tunnel was used as a road tunnel forming part of the A35. Purchased in 2004 by Clist Properties Ltd, the tunnel was the subject of an ongoing planning dispute. However after many meetings and some legal work a use was approved for the disused tunnel.

The use in question is a training facility for Target sports including archery and shooting. The tunnel suffered from severe damp and water penetration into and through the tunnel. The tunnel is covered by 8 metres of soil.

The Solution

[Newton 508](#) and [508 Mesh](#) were used to drain water that was entering the structure from above and prevent the associated mineral deposit stalactites forming. The products are ideally suited to this type and shape of structure as the water drains naturally behind the membrane following the arch shape down to specially formed floor gullies at the base of the walls which run the length of the structure. Water then discharges naturally to the open elevation at the low end of the tunnel.

The Result

The tunnel, now fully waterproofed, is now The Target Sports Centre and open for business.



Charmouth Tunnel suffered from severe damp



Newton 508 membrane lined the entire tunnel



"We finally decided to meet with four suppliers of membrane and for us the level of service and support that we received from Toby Champion of John Newton was as good as it was ever going to get. We have been delighted with the product support and genuine interest that we have received in our project and would strongly recommend that any one looking for a cavity membrane product saves themselves the time of researching that market and go directly to John Newton"

Richard Clist, Clist Properties

The Products

NEWTON SYSTEM 500

The professional's "waterproofing system of choice", Newton System 500 is an internally applied waterproofing system based upon Newton's extensive range of cavity drain membranes, drainage conduits and sophisticated pumping and control systems. It is a maintainable system, so complies with the BS 8102:2009 Code of Practice for The Protection of Structures Against Water from the Ground.



Application of Newton 508 Mesh to the tunnel walls.



The Target Tunnel Sports Centre finished and in use.



The exterior of the tunnel after completion.

Newton Specialist Basement Contractors

Newton recommends that our systems are installed by one of our nationwide network of Newton Specialist Basement Contractors (NSBCs). Trained by Newton, NSBCs offer a full guarantee on the design and installation, and can act as Waterproofing Design Specialists.



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