

PROVEN PERFORMANCE

FRIARS WALK, NEWPORT

TOPPROOF



Product TopProof
Client Churngold
Main contractor Bowmer and Kirkland Ltd
Engineer Waterman Consultants
Location Friars Walk, Newport
Date of completion 10/2015

The Friars Walk shopping centre in Newport is being built by Bowmer and Kirkland Limited for Queensberry Real Estate and will offer over 390,000 sq ft of retail and leisure space.

THE CHALLENGE

For the expansive lower area of the building, Waterman Consultants required a robust and durable waterproofing solution that could meet both Grade 3 of BS 8102:2009 and BS 8485 codes whilst at the same time being flexible for the different site details.

OUR SOLUTION

Working alongside Sika®, a dual system of more than 9,000m of the Sikaproof® A08 system together with 3,300m³ of Tarmac TopProof watertight concrete was supplied to deliver outstanding levels of watertightness to the lower floor. TopProof is better for the environment compared to conventional methods of waterproofing. This is because many membranes contain oil-based chemicals and synthetic materials. Ordinary concrete contains fine pores which allow moisture to penetrate the surface and pass through. The size and volume of these pores is dictated by the water/cement ratio - the higher the ratio, the more porous the concrete. TopProof's pores are filled to create high density ensuring a watertight concrete.

RESULTS AND BENEFITS

A great watertight concrete was supplied by Tarmac to Churngold Construction which was of a very high quality. Ideal for below ground and basement construction, it prevents water from migrating through the concrete. State-of-the-art Sika admixtures work within the concrete, firstly to reduce the water/cement ratio, thus increasing the density of the mix and minimising the size, volume and continuity of the concrete's pores, and secondly to fill the remaining pores.

James Rivers from Churngold Construction commented, "These are great waterproofing systems and I cannot speak highly enough of the team involved."

For more details contact topproof@tarmac.com or call **0800 1 218 218**

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