Premier Inn is a British hotel chain and the UK’s largest hotel brand, with more than 50,000 rooms and 700 hotels. Following record profits in 2015 Whitbread announced further expansion to its chain of hotels linked in with its Costa coffee shops.

THE CHALLENGE
The hotel is similar in construction to many others and had plans for a lift to be installed in the building. Building techniques and design called for a solution to waterproof the basement, to stop the ingress of water. This may of been from the nearby water table, storm water leakage, water main burst or leakage etc. Lift pits can be subject to hydrostatic pressure. Traditional methods for lift pit waterproofing systems utilize some form of tanking. Originally designed with the objective of effectively cocooning the lift pit in a waterproof membrane and thus prevent ground water ingress. They are usually small with the need to be externally tanked in difficult, wet and confined working conditions.

OUR SOLUTION
Tarmac’s Topproof concrete had been used successfully in the past by Carter Lauren on similar projects for Premier Inns, so they proposed its use on the Abergavenny project. The pit was constructed in 2 pours: 12m3 on 1st Dec and 6m3 7 days later. Topproof waterproof concrete contains two specially formulated admixtures. The first reduces the water/cement ratio, increasing the density of the mix and minimising the size of the pores. The second fills the remaining pores ensuring a completely watertight finish. This means there is no need for external membranes, reducing cost and labour.

RESULTS AND BENEFITS
Topproof eliminates the need for oil based chemicals and synthetic materials, greatly reduces waste on site, cuts vehicle movements and is 100% recyclable. Topproof is laid in exactly the same way as ordinary concrete so no special skills or equipment are required. Should you require any help all you have to do is ask, Tarmac offers full training and professional on-site support.

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