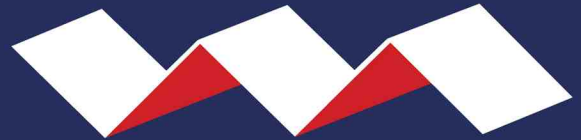


Project Profile

Durham University Chemistry Department

Roofing System: Liquid Applied Elastomeric Coating



WEATHERPROOFING ADVISORS LIMITED



The Problem

The existing asphalt roof membranes had been degraded by thermal fluctuations that had resulted in water ingress, which was becoming increasingly problematic. As a roofing substrate, asphalt is naturally susceptible to the effects of the weather and repeated freeze-thaw cycles cause it to blister, ravel and ultimately crack, opening the floodgates for ponded water to enter the building.

The Solution

The project, which involves waterproofing a combined roof area in excess of 6,000 square metres, has been completed with a high-performance liquid-applied coating system. The University required a long-term solution to the problems it was experiencing and refurbishing with asphalt was not a desirable option. Being prone to the weather, asphalt doesn't make a good refurbishment material however the major negative associated with the substrate is the requirement it must be applied in a molten state. The solution is a cold liquid-applied waterproof coating system that can be applied directly over an existing roof membrane to prevent roof leaks for up to 25 years, depending on the specification.

The Benefits

The product works by seamlessly encapsulating the existing roof substrate, creating a new membrane that is not only 100% waterproof but also allows the roof beneath to 'breathe' due to its vapour permeability. The elastomeric coating system was applied to the University roof by brush and roller, just like a regular paint. It offers the significant advantages of no on site mixing and no need for naked flames as with comparable hot work bitumen roofing systems.

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