

## Kemperol Cures Roof Ailments at Poole Hospital

Poole Hospital, Dorset



Kemper System's Kemperol 2K-PUR solvent-free and odourless waterproofing membrane has been used to refurbish the roof of Poole Hospital's outpatient department, ensuring that the project avoided any odours that could become a nuisance to staff and patients in the unit or the surrounding wards.

The cold-applied liquid membrane was installed by contractor, Hi Tec Roof Systems, overlaying the existing single ply membrane on the 480m<sup>2</sup> roof.

Despite regular repairs to the existing roof, the single ply membrane had failed due to a number of factors, including the loosening of mechanical fixings, damage caused by seagulls and holes in the membrane caused by cigarette butts discarded from above.

The Kemperol 2K-PUR membrane was selected for the scheme to ensure minimum disruption at the hospital as it is completely odourless throughout the installation process, required no strip out of the existing roof substrate, no hot works and no wait time between applications of resin.

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Explains Steve Mulcock from Hi Tec Roof Systems: “The outpatient department at Poole Hospital is based around a central courtyard and surrounded on three sides by seven storeys containing wards. It was vital, therefore, that we used a system that would minimise disruption while providing a durable solution. The cold-applied liquid system also helped to ensure we could handle the awkward shapes and details of the roof’s quadrangle layout.”

Hi Tec Roof Systems cleaned and prepared the roof, applying a fungicidal wash to completely remove any contaminants before applying a Kempertec primer. The Kemperol 2K-PUR resin was then applied in a single wet-on-wet process in which the resin is first applied to the substrate; reinforcement fleece is then laid directly on to the wet resin, immediately followed by more resin on top. This ensures complete saturation of the reinforcement fleece. Once cured the resin forms a seamless, elastomeric waterproof membrane that cannot delaminate, is UV stable, and bonds directly to the substrate.

Finally, a non-slip maintenance walkway was created on the completed membrane using tiles fabricated from recycled tyres.

“The outpatient department’s location had made it especially susceptible to wear and tear and this roof refurbishment has not only delivered a much more robust surface but has also addressed some of those issues, ensuring that the new Kemperol membrane will fulfil its expected BBA service life of at least 25 years.”