

## Case Study – Roofing



### Maudland Building/single storey flat roofs

**Project:**

Maudland Building/single storey flat roofs

**Size:**

Approximately 300m<sup>2</sup>

**Contractor:**

W. Hughes & Son

**The Background**

The University's Property Services Department specified the Decothane Gamma 20 system for use over the Maudland Building's flat felt roof. Felt, like other bitumen-based roofing materials, is vulnerable to UV-induced embrittlement - leading it to crack or split between the seams when the substrate moves as a result of thermal expansion. The refurbishment project was undertaken as a form of preventative maintenance - protecting the felt against further exposure to weathering and UV light before it permitted water to penetrate into the building.

**The Problem**

The Decothane Gamma 20 membrane is UV stable and will not discolour or embrittle with age. In addition, it incorporates glass fibre matting reinforcement which imparts high tensile strength and enables the system to tolerate a high degree of substrate movement. It remains highly elastomeric throughout its 20 year design life and, at the end of this period, may be restored to its original durability by the application of a new top coat.