

## Project Profile - Buildings & Commercial Construction



### PROJECT

The Royal Hall, Harrogate

### SUMMARY

Repair and waterproofing of basement walls and soffits and internal rendering

### PRODUCTS

**Monolite**  
**Monolevel RM**  
**Polymer Admixture 850**

### CLIENT

Harrogate Borough Council

### CONTRACTOR

Main Contractor: HBG Construction  
(North East) Limited

Specialist Contractor: VA Crookes  
(Contracts) Limited

### BACKGROUND ►

This Grade II\* listed building which was the creation of Britain's greatest theatre designer, Frank Matcham and his architect Robert Beale, was completed in 1903.

The building's design was derived from the great ballrooms and music pavilions of Imperial Europe allied with the traditions of the British Theatre movement. In September 2000, extensive structural problems were discovered with large areas of the 100 year old concrete which makes up much of the sub-structure found to be in a highly advanced state of decay.

### THE SOLUTION ►

Capable of being applied in layers up to 100mm on soffits and impermeable to water under 10 bar pressure, **Monolite** was applied to stainless steel mesh on soffits to both improve fire resistance and form an impervious surface for the new ventilation system. **Monolevel RM**, a fibre reinforced render, was applied to walls to form a waterproof and airtight surface for the plenum chambers. **Monolite**, because of its low density, was also used for the repair of lightweight concrete floors. Site batched polymer render modified with **Polymer Admixture 850** was used for hardwearing surfaces in below ground toilet and storage areas and backstage areas.



FM 41091  
EMS 597350  
OHS 597351

Quality  
Environmental  
Health & Safety

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