



## Beautiful Basements Case Study

### Spray Waterproofing – New Build Basement – Balsham, Cambridgeshire

**Clients**  
**Waterproofing Designers**

**Mr. & Mrs. Ackroyd**  
**Beautiful Basements**

#### Background

100m<sup>2</sup> basement build within a new four bedroom build property sited in the grounds of an existing residence. A particular feature of the site was its tendency to flood. Parent company, Beautiful Basements was commissioned to excavate the site, build both the shell and internal formwork. On Beautiful Basements advice and in view of ground conditions the client also opted for secondary external waterproofing.

#### Construction Method

Having constructed the external walls from mass cast reinforced waterproof concrete, Köster thick bitumen spray tanking was applied by the company's 'contract only' division, National Tanking. The spray sealant provided a continuous 4mm membrane around the structure solving any bridging gaps/construction joints and is exclusive to Beautiful Basements. Applied in one day, the basement was ready for back filling within 24 hours.

#### Waterproofing Method

Type A – External Barrier

A 2 layer spray bitumen with fibreglass mesh reinforcement was sprayed and a drainage membrane layer was laid on top of the bitumen.

Type B – Integral Protection

The external walls were constructed using reinforced concrete with an additive, making the concrete waterproof.

All waterproofing materials were supplied by Köster UK

#### Build Programme

3 months



**Basement Build**  
**Conversion**  
**Retro-fit**  
**Waterproofing**

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