



## The Tate National Museum Liverpool

Specialist UK Restorations Ltd (SUKR) were asked to carry out a specialist Condition Survey in the basement structure of the Tate National Museum in Liverpool. This was to determine the extent and cause of the ingress of water, which had already led to damages and potentially serious Health & Safety concerns.

Upon close inspection, it was evident that the original watertight joint in the common basement, which also provided direct access and a link between the two buildings of the Museum, had failed. A complete remedial specification together with detailed costings was prepared for the Client and SUKR were instructed to proceed with the works immediately. The work began by mechanically cutting out, exposing and removing the failed joint.

Precise holes were then drilled either side of the joint, at predetermined centres of 300mm, into which injection

ports with non-ferrous, non return valves were set. A single component, flexible, Sika polyurethane injection resin was then pumped through the ports 'to refusal' under high pressure. The valves were left overnight and then injected again the next day to ensure complete sealing.

The whole joint area was reformed and overlaid using the Sikadur Combiflex System with rapid setting Sikadur epoxy mortar. This system provided an elastic, waterproof and crack bridging protective bandage exactly in the location of the original construction joint.

Upon completion of the Sikadur Combiflex installation, the surrounding area was brought back to level and original profile using pre-bagged, Sika 1 waterproof tanking screed. The result provides a fast, effective and permanent repair and waterproofing solution.

### Project Summary

**Problem:** Water ingress to the structure below ground level

**Requirement:** A fast and effective watertight repair solution

**Solution:** Sikadur Combiflex watertight joint system

Specialist **UK** Restorations

### Project Details:

**Client:**  
National Museums Service

**Materials Supplier:**  
NCC (North West) Limited

**Materials Manufacturer:**  
Sika Limited

*For professional support on your project contact:*

Specialist **UK** Restorations

**Case Studies are available to illustrate our expertise and experience in all of the areas where we provide our Technical Services. These include:**

Structural Repair and Reinforcement Systems



Concrete Repair and Protection



Structural Waterproofing



Facade Cleaning and Maintenance



Stone Restoration and Conservation



External Wall Insulation



Timber Repair and Restoration



Bird Deterrent Systems

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