



Figure 1: Bridge arch before stabilisation

CASE STUDY – In-situ high strength PUR for stabilisation of bridge structure

BUFCA SUPPLIER: Isothane Ltd
BUFCA INSTALLER: Cosyhome

THE SITUATION

A solution was required to ensure that 30 redundant bridges maintain their intrinsic strength to support the structures above, and to minimise inspection and repair costs. The bridges could not be demolished as the roads provide access.

Figure 2: Bridge arch after stabilisation



SOLUTION

Duratherm spray applied high strength stabilising PUR was applied to the brick jack arches, stabilising the brick structure before filling the remainder of the void with high strength concrete.

All works were carried out from below with no disruption to roads, footpaths or car parks. There is no requirement for future inspection or maintenance.

The designers, Tony Gee & Partners worked with the BUFCA supplier and installer to provide an appropriate solution.