



## **St Lukes Chappel, Newcastle**

### **Case Study**

The domed concrete roof of St Lukes Chapel at The Royal Victoria Infirmary in Newcastle, had previously been waterproofed with a bitumen felt.

However this had deteriorated allowing water ingress into the concrete which had begun to crack and spall, putting the fine gold leaf and mosaic decoration of the internal surfaces at risk.

CS Developments Ltd and their materials consultants **NCC**, developed a complete Sika repair and protection system as a solution to repair, protect and waterproof the reinforced concrete dome.

The failed waterproofing was removed, together with the damaged concrete. The exposed steel reinforcement was cleaned and protected, then the damaged concrete was replaced with Sika MonoTop repair mortars. To prevent the development of any future corrosion in the carbonated concrete, the surfaces were impregnated with Sika FerroGard 903, which migrates to the embedded steel and forms a protective barrier.

Finally the surfaces were finished by coating them with elastic, crack bridging Sikagard 550W, followed by new leadwork from other specialists.

**Client:**

Royal Victoria Infirmary

**Specialist Contractor:**

CS Developments Ltd

**Products Used:**

Sika Ltd

**Contact:**

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