



# SIKA AT WORK

## COUNTY HALL CAR PARK HERTFORD

REFURBISHMENT: Sika® Ferrogard-903 and SikaScreed® HardTop®-80  
FLOORING: Sikafloor®RB58 Pronto deck system

BUILDING TRUST



# COUNTY HALL CAR PARK, HERTFORD



**SIKA PROVIDES A FULLY WATERPROOF CAR PARK DECK SYSTEM FOR HERTFORDSHIRE COUNTY COUNCIL CAR PARK.**

Sika were chosen to supply a single source solution for concrete repair, corrosion management and a waterproof car park deck system to the existing staff multi-storey car park in Hertford.

County Hall car park is a tiered multi-storey car park, constructed in two phases in the 1960's & 1970's. Built into the hillside at the rear of County Hall, Hertford, the first phase of the reinforced concrete structure was built in the mid 1960's providing 80 parking spaces. The second phase of the structure was added in 1973 adding some 180 extra parking spaces.



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Mastic asphalt was originally used to waterproof both parking decks which have been exposed to the elements since day one. Over time, the surface had badly degraded. Splits in the surface, failed movement joints and blistering were all failures allowing surface water to ingress the structure below resulting in paintwork damage to vehicles parked underneath. The failure of joints combined with cracks in the surface was also creating serious health and safety issues for the car park's users.

Structural engineers Stirling Maynard were commissioned by Hertfordshire County Council to do a full survey of the car park to assess its structural integrity together with specifying the most suitable remedial works to be undertaken. The existing asphalt to the top deck was at the end of its life and needed to be fully removed. Following removal of the asphalt the concrete slab was repaired and treated with Sika Ferrogard 903+ corrosion inhibitor. The purpose of using the corrosion inhibitor was to protect the steel reinforcement from corrosion caused by de-icing salts and carbonation.

Sikascreed® HardTop®-80 was used to lower and re-profile the drainage outlets. Sikascreed® HardTop®-80 is a high strength, fast setting screeding mortar design for re-screeding to falls in with minimal curing times required.

Waterproofing was carried out to the treated concrete slab with Sikafloor®RB58 Pronto deck system to create a fully waterproof, non-slip car park deck system. The key feature of the Sikafloor RB58 system is that it meets the highest crack bridging capability within the European standard of B4.2 @ - 20°C. The system is ultra-fast setting allowing the full system to be applied and returning the car park to full use within the shortest time possible.

The project was completed on time even after periods of rain allowing the car park to be used to full capacity within the client's time frame.

For the past 100 years, Sika has gained extensive experience and expertise in concrete repair and protection with documented references dating back to the 1920s. Sika provides all of the necessary products for the technically correct repair and protection of concrete, in accordance with the principles and methods defined in European Standards EN 1504 as implemented in 2009.

With a comprehensive range of car park decking and full concrete repairs systems, Sika provides a variety of solutions designed to meet the harsh conditions that car parks are subject to, and provide durability, cost effectiveness and an excellent finish. Following the successful renovation of the Hertford County Hall Car Park, Sika and their specialist contracting partner, have delivered a bright, aesthetically appealing and safe car parking area.

**For further information call 0800 112 3863.**