



SIKA AT WORK

THORNEBRIDGE CAR PARK, LINCOLN, ENGLAND

REFURBISHMENT: Sikalastic®-841 ST, Sikalastic®-827 LT, Sika® Concrete Primer

BUILDING TRUST



THORNEBRIDGE CAR PARK, LINCOLN



SIKA'S BRIDGE DECK WATERPROOFING SYSTEMS were used on Thornebridge car park in Lincoln, as it was in desperate need of renovation with a failing asphalt decking system and no waterproofing membrane.

As part of a £400,000 programme of works, specialist applicator APA Concrete Repairs was appointed to complete a challenging waterproofing application. Prior to the waterproofing application, asphalt was completely removed and the surface scabbled before the deck was jet washed to provide a sound application surface. Sika also provides a full range of services including equipment to ensure the site conditions, relative humidity and moisture levels of the concrete are suitable prior to application of the system.



Sika® Concrete Primer being applied ↑

Upstand detail close up ↗

Broadcasted Sikalastic®-827 LT hotmelt pellets
- once melted in conjunction with the asphalt
this delivers a fully homogenous system →



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Sikalastic®-841 ST spray applied

Sika concrete primer was then applied, designed for sealing cementitious substrates to reduce the incidence of pin-holing, it also significantly reduces the likelihood of outgassing from susceptible substrates. Offering low viscosity to allow deep penetration of the concrete substrate, the fast curing system enabled the rapid overcoating with the waterproofing membrane.

After preparing the surface including the broadcasting into the wet primer of Kiln dried quartz sand, Sikalastic®-841 ST was applied to a thickness of 2mm. This hot applied Pure Polyurea waterproof coating was specified as it offered no loss of thickness due to evaporation, a high weather tolerance of from -15°C to +70°C and excellent crack bridging properties according to BS EN 1504 and DIN EN1062-7. Ideal for both horizontal and vertical surfaces, Sikalastic®-841 ST provides a continuous joint free waterproofing membrane and can be sprayed immediately after the primer has cured - which takes approximately 30 minutes.

With a tack free time of between 60 and 120 seconds, foot traffic is possible almost immediately after application and the deck is fully trafficable within just 60 minutes. Following application of the robust and abrasion resistant coating, the structure is also water tight immediately and less susceptible to climatic conditions so the car park can be returned to service very quickly. Easy to apply, the Sikalastic®-841 ST system provides a simple and efficient solution for the waterproofing and corrosion protection of upstands, stairs, gullies and other complex structural elements.

After the Sikalastic®-841 ST has cured, a second coat of primer was then applied to the surface. Broadcast with Sikalastic®-827 LT hotmelt pellets, these melt and bond to the asphalt so the complete system from concrete to asphalt is fully bonded and delivers exceptional waterproofing performance. Due to the fast track nature and speed of cure of the waterproofing system, the retail units below remained open for business with no disruption - a major factor in the selection of the Sikalastic® system.

Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.



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