



SIKA AT WORK

CARLSBERG BOTTLING HALL

Location:	Bridge Street, Northampton
Project:	Carlsberg Bottling Hall - Complete polyurethane membrane & resin flooring solution
Applicator/Contractor:	Caddick Construction and Ancorite
Designer/Specifier/ Architect:	Arup
Market Sector:	Industrial Flooring

Products Used:

- Sikafloor® 570 SBR
- Sikalastic® M860
- Sikaflex® CR460
- Sika® Ucrete® UD 200
- Sika® Ucrete® RG

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Background

As part of its Carlsberg Cube project in Northampton, Carlsberg opted to consolidate its bottling hall and another significant site from Leeds. Notably, the existing car park for both employees and visitors was situated beneath the bottling hall on the Northampton premises.

The Challenge

The challenge was to ensure the safety of employees within the bottling hall, as well as pedestrians and vehicles in the car park below. There are numerous hazards inherent in bottling halls, including chemical attack of finishes and the increased risk of slip from wet environments.

Ensuring the safety of individuals and vehicles in the car park beneath the bottling hall was paramount, especially considering the presence of sodium hypochlorite at elevated temperatures. This chemical possesses potential harm upon skin contact and can cause damage to metals. Given its frequent use as a cleaning and disinfectant agent, the flooring needed to withstand regular exposure to the chemical while effectively safeguarding the underlying car park.

Our Solution

After consultation with Alan Jefferies, the lead project manager representing Arup in Birmingham, the 450mm concrete slab was coated with Sikalastic® M860. This product is a puncture-proof, seamless, elastomeric, chemically resistant polyurethane membrane. Subsequently, a polymer-modified screed to falls (BS8204) was applied, integrating Sikafloor® 570 SBR to reduce loading mass.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

The flooring was then laid using Sika® Ucrete® UD 200, renowned for its slip and temperature resistance, along with its chemical imperviousness tailored to the project's operational demands. The seamless finish allowed no ingress of product, cleaning chemicals or effluent to pass through the floor or the slab. Additionally, Sikalastic® M860 served as a secondary safeguard, offering reassurance and mitigation against any potential movements.

Benefits

- Maximised use of space on-site to solve two problems and eliminate need to purchase more land.
- Full system applied throughout, from membrane to topping, assuring compatibility and availability of technical support throughout.
- Two chemical resistant coatings used to ensure that if the Sika® Ucrete® UD 200 moved, the secondary containment, Sikalastic® M860 would contain any leaks.

Projects facts at a glance

- Designed by Arup, main contractor was Caddick Construction.
- Full system designed to ensure chemical containment, reduced loading mass and still maintain chemical, temperature and slip resistance of flooring

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