

Project:

Carlsberg Bottling Hall

Location:

Bridge Street, Northampton

Designer/Architect/Specifier

Arup

Main Contractor:

Caddick Construction

Flooring Contractor:

Ancorite

Market sector:

Industrial Flooring

Products used

MasterTop 570SBR

MasterSeal M860

MasterSeal CR460

Ucrete UD200

Ucrete RG

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Carlsberg Bottling Hall, Northampton

Complete polyurethane membrane & resin flooring solution



Our reference in Northampton (United Kingdom): Carlsberg Bottling Hall

The background

Carlsberg decided to move its bottling hall and another major site in Leeds together as part of its Carlsberg Cube project in Northampton. The existing car park for employees and visitors was based underneath the bottling hall on the Northampton site.

The challenge

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

It was also necessary to protect people and vehicles in the car park beneath the bottling hall. In particular from sodium hypochlorite at high temperature. This is a chemical that could be potentially harmful if it were to come into contact with skin, and is damaging to metals. It is also a common cleaning and disinfectant chemical, meaning that the flooring had to stand up to regular contact with the chemical, whilst still being able to protect the car park underneath.

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Our solution

After consultation with Alan Jefferies, the lead project manager from Arup in Birmingham, we protected the 450mm concrete slab with the MasterSeal M860, a puncture proof, seamless, elastomeric, chemically resistant, polyurethane membrane. This was followed by polymer modified screed to falls (BS8204) incorporating MasterTop 570SBR to reduce loading mass.

The floor was then installed using Ucrete UD200, a product which is slip and temperature resistant, and chemically impervious to the operating conditions of the project. The seamless finish allowed no ingress of product, cleaning chemicals or effluent to pass through the floor or the slab. The MasterSeal M860 provided secondary protection for both peace of mind and mitigation if any movement were to occur.

Benefits to the customer

- 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 Ucrete UD200 moved, the secondary containment, MasterSeal M860 would contain any leaks

Projects facts at a glance

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

Master Builders Solutions by MBCC Group

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Master Builders Solutions is built on the experience gained from more than a century in the construction industry. At the core of the Master Builders Solutions brand is the combined know-how and experience of a global community of construction experts, who connect with you to solve all of your construction challenges.

Further information is available at:
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