

# Job Reference

New Lion Nathan Brewery gets 'Off on the Right Foot' with UCRETE® DP

## High Performance Flooring Systems



**Project:**  
Lion Nathan East Tamaki Brewery

**Clients:**  
Lion Nathan  
Mainzeal

**Contractor:**  
Topcoat Specialist Coatings Limited

**Location:**  
East Tamaki,  
Auckland, New Zealand

**Completed:**  
2010

**Product:**  
UCRETE® DP

 **BASF**

The Chemical Company

## Project Background

Situated on a massive 16.7 hectare site in South Auckland, Lion Nathan's new state-of-the-art at East Tamaki brewery looks set to change the face of the company's New Zealand brewing operations well into the next century. The new facility, which cost over \$250 million to develop, will replace Lion Nathan's Khyber Pass site in the Auckland suburb of Newmarket, and will become the new 'home' of many of New Zealand's top-selling beers, including Steinlager, Speight's, Mac's, Lion Red, Stella Artois, Corona, Guinness and Wither Hills.

One of New Zealand's largest manufacturing facilities, the new brewery is being constructed for Lion Nathan by leading New Zealand construction company Mainzeal. Due to the size and scope of the project the new facility is being opened in stages, with the first stage opened in September 2009, and the remainder of the construction work scheduled for completion during 2010.

## The Challenge

Commonly referred to as 'Project Century' – in reference to the facility's projected life-span of 100 years – the new manufacturing plant and warehousing facility is being developed with a focus on quality, long-term performance and reduced environmental impact.

Not surprisingly, this focus on quality, longevity and environmental performance is being applied to all aspects of the new facility – including the floors. The challenge was to find a floor that could meet these performance expectations.

## The Solution

With that in mind, when it came to selecting an appropriate flooring solution for the facility's beer processing, packaging and warehousing areas, project engineers Beca chose **UCRETE® DP** from BASF Construction Chemicals.

The contract for the new floors was awarded to leading New Zealand flooring applicators Topcoat Specialist Coatings Limited. Speaking about the new floors, Mark Ambridge, General Manager with Topcoat, commented:

"When it comes to selecting an appropriate flooring solution for a facility such as this, quality, toughness, longevity and ease of cleaning are all of paramount importance. **UCRETE® DP** delivers outstanding performance on all fronts."

"Lion Nathan had previously installed **UCRETE® DP** floors in sections of its Christchurch facility and, not surprisingly, the performance of these floors - together with its performance in numerous facilities around the world - made **UCRETE® DP** an obvious choice for the new East Tamaki brewery," he said.



Some 6,000m<sup>2</sup> of **UCRETE® DP** floors have been installed at the new brewery, including 1,200m<sup>2</sup> in the Beer Processing Area and 3,500m<sup>2</sup> in the Packaging Room. **UCRETE® DP** has also been used in a number of smaller internal and external bunded areas. Topcoat was also recently contracted to install a further 800m<sup>2</sup> of **UCRETE® DP** flooring in another of the brewery's processing areas.

Specifically developed for the food, beverage and pharmaceutical industries, **UCRETE® DP** combines outstanding strength and non-slip performance characteristics with a finish which non-tainting, non-dusting, microbiologically inert and extremely easy to clean. It also offers exceptional resistance to aggressive chemicals, heavy impact and temperatures from -40°C to 120°C. **UCRETE® DP** meets the requirements of both the U.S. and European standards for slip resistant pedestrian surfaces, as well as those of AS/NZS 4586: 1999 *Slip Resistance Classification of New Pedestrian Surface Materials* in relation to "high slip risk" areas.



Another major benefit of **UCRETE® DP** is the speed with which it can be applied. For the Lion Nathan brewery project, it was applied to a shot-blasted concrete floor slab at a thickness of 5-6mm. This was followed by a broadcast application of K20S non-slip aggregate and a final roller coat application of the **UCRETE®** topcoat.

## The Result

"We're extremely happy with the way the new floors have gone down and the finished result. Most importantly, so is the client – both Lion Nathan and Mainzeal are extremely pleased with the quality of the finished floors," Mark Ambridge said.

"**UCRETE® DP** is extremely quick to put down. In fact, with our crew of 12, we were able to lay the 3,500m<sup>2</sup> Packaging Room floor in only five days from start to finish," he said.

"What's more, the floor's short curing time means that the area can be opened to foot traffic after only 8 hours - and vehicular traffic after 24 hours - and this can make a massive difference in projects with tight construction schedules such as this," Mark Ambridge added.

