

Project:

Extension and refurbishment of production areas

Location:

Rauma, Finland

Project completed:

2014

Owner/s:

Forchem Oy

Market sector:

Chemical Industry

Products used & amounts:

Ucrete UD200, 655 m²

Forchem OY

Chemical resistant Ucrete flooring



Our reference in Rauma (Finland): Forchem Oy

The background

When the Forchem plant opened in 2002 it was the largest modern crude tall oil distillation plant in the world.

Forchem is an innovative chemical company converting Crude Tall Oil into useful raw materials used in a wide range of industries. For example, it is used in the manufacture of coatings, lubricants, soaps, inks and adhesives among others.

Crude Tall Oil is a by-product of the pulping process especially of pine trees during the manufacture of paper.

The challenge

The combination of aggressive chemicals, fatty acids and distillates which can attack many types of flooring materials together with high temperatures made the environment particularly challenging.

The previous epoxy resin and methyl methacrylate floors had failed miserably. They had been rapidly eroded and had debonded in many places. Forchem was in a constant cycle of floor repairs which cost money and hampered production.

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Chemical resistant Ucrete flooring



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Our solution

A Ucrete flooring solution was the obvious choice given the demands of the environment for organic acid, solvent oil and chemical resistance combined with the potential for high temperatures.

Following trials on site in the “worst case” testing ground which were tested for 6 months to prove the concept, a 12 mm Ucrete UD200 flooring specification was chosen to give the required chemical and temperature resistance. A light surface profile ensures safe footing even when the floor is wet.

This specification has been installed throughout in order to ensure that the floor will be in service for many years to come, even if the production process change or is reconfigured in the future.

The customer's benefit

- Through the thermal, chemical and mechanical resistance of Ucrete flooring a maintenance free long lived flooring solution has been achieved.
- A light slip resistant profile is offering the best compromise between ease of cleaning and safety underfoot.
- The robust Ucrete UD200 floor specification eliminates the need for ongoing maintenance, saving management time and improving production efficiency.

Projects facts at a glance

- Pump room area of 75 m²
- Extension floor area of 580 m²

Master Builders Solutions from BASF

The Master Builders Solutions brand expresses BASF's expertise in providing customized chemical solutions for new construction, maintenance, repair and restoration of structures.

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 BASF construction experts, who connect with you to solve all of your construction challenges.

Further information is available at:
www.master-builder-solutions.basf.co.uk