

Floor Solutions

Production Facility in Czech Republic Selects Stonhard to Protect Floors and Walls in Aggressive Chemical Environment



A functional, highly chemical-resistant solution to ensure proper protection of the floor and high walls

PRODUCTS USED:

Stonclad® UT • Stonclad® UR • Stonseal® UT7
Stonchem® 878 • Stonchem® 878V

A New Production Facility

FK System is located in the city of Brno in Czech Republic. They specialize in surface treatment, specifically, the cleaning, blasting, pickling and passivation of alloyed stainless steel. FK System was founded in 1992 by Frantisek Kalny prior to Czechoslovakia's split into the Czech Republic and Slovakia. Shortly after the company was established, Kalny's sons joined the family business and ran it successfully for the next 30 years. In 2019, they reached their goal of completing a new production facility in Brno.

Stonhard Contracted to Provide Highest Quality Chemical-Resistant Products and Installation

To properly construct and run this new production facility, FK System required a flooring solution that would withstand aggressive acids. The customer expectation was simple, Stonhard would need to provide a functional, highly chemical-resistant solution to ensure proper protection of the floor and high walls. Based on the chemical specifications and observations, Stonhard identified the right system to fulfill all expectations, providing the facility with a long-term floor and wall solution.

Stonchem 800 System Recommended to Withstand Aggressive Acids

Cleaning and pickling stainless steel exposes the floors and walls to aggressive, concentrated acids. Stonchem 800 Series products are highly cross-linked vinyl ester resin, providing a broad chemical resistance as well as excellent thermal stability to withstand thermal shock and chemical attack. Stonchem 800 products are best against exposures to concentrated organic acids, moderate to strong inorganic acids, alkalis, and most solvents.

Stonhard Tests to Select the Right Formulation for Long-Term Results

Stonhard provided immersion samples for chemical resistance testing to validate its claims that Stonchem 800 products would withstand the chemical exposure at FK System. This testing is available for potential Stonchem customers upon request. After verifying the chemical resistance was correct, Stonchem 878, a 3.5mm vinyl ester lining was selected by the company with the support of Stonhard's technical service experts. This system includes a mortar base, embedded engineering fabric, mortar coat, and a mineral composite topcoat, which provides resistance to thermal

cycling, crack movement, permeation, and abrasion. This system was applied on both floors and walls to provide superior protection in FK System's facility.

Floor and Wall Solutions for Specific Factory Conditions

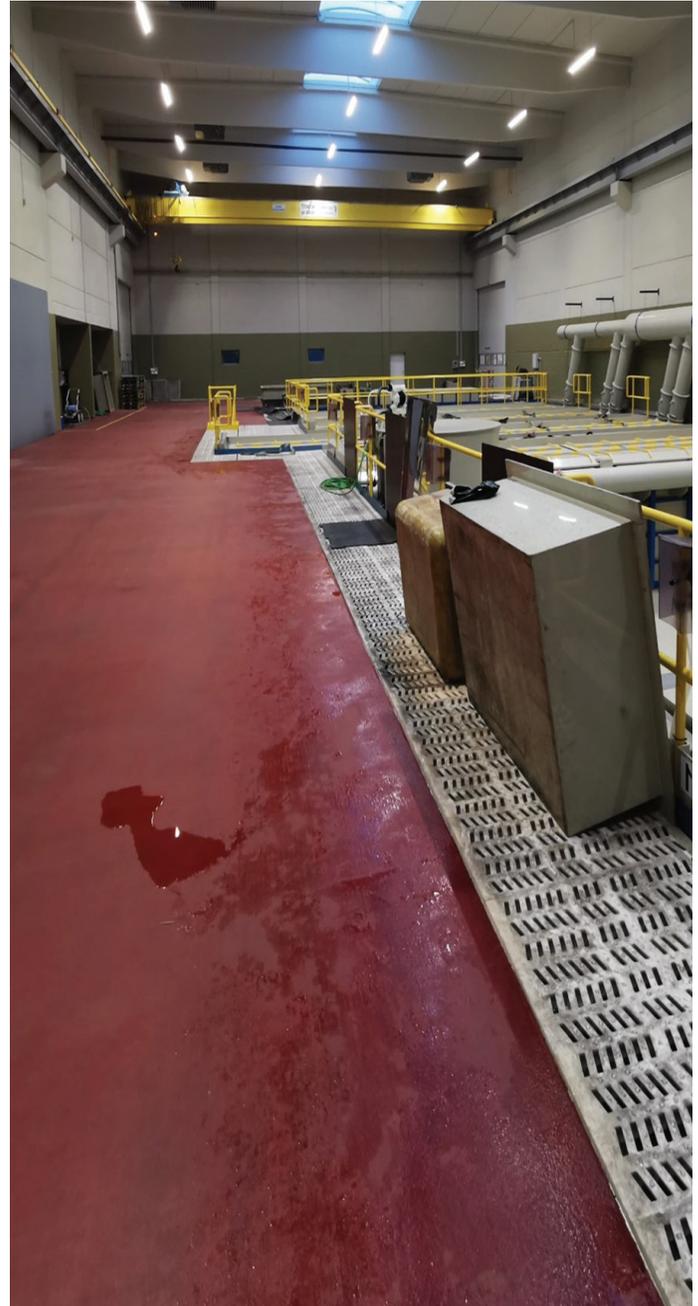
In the other parts of the factory, where less aggressive chemicals are used, Stonhard installed Stonclad UT on the floors and Stonclad UR on the walls. Both were finished with Stonseal UT7 topcoat. Both systems are high-impact resistant mortar systems which exhibit excellent abrasion, thermal shock, thermal cycling, and chemical-resistant characteristics. Stonhard's wide product range provides the best solutions for each environment.

A Satisfied Customer

This Stonhard installation continues to provide excellent results in daily aggressive conditions with heavy mechanical, thermal and chemical loads. FK System is fully satisfied with the solutions and implementation provided by Stonhard.

The Stonhard Difference

Stonhard is the unprecedented world leader in manufacturing and installing high-performance polymer floor, wall and lining systems. Stonhard maintains 300 Territory Managers and 175 application crews worldwide who will work with you on design specification, project management, final walk through and service after the sale. Stonhard's single-source warranty covers both products and installation.



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