

ChemLine® Applied to Safeguard Concrete Flooring at Production Facility

ChemLINE®
CASE STUDY



New concrete production floor at the MEFA facility in Bolu, Turkey, with first section of newly coated ChemLine® (see glossy area) for protection against corrosive chemicals.

MEFA, a company headquartered in Ankara, Turkey, is one of the leading integrated manufacturers in Europe of dishwasher and dryer machine baskets, including wire drawing, forming, welding, PA coating, assembly and quality control processes. The company is also well-known for producing oven and refrigerator shelves, and EFA rubber and insulation materials. MEFA has production factories in Ankara, Bolu and Eskisehir, Turkey, and in Bulgaria.

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ChemLine® Floor Coating Protects Against Corrosive Chemicals

In this particular project, MEFA requested that MarineLine Turkiye provide its ChemLine® coating system to protect several new concrete flooring areas at the Bolu facility against a number of corrosive chemicals that can spill or leak from the manufacturing equipment. These are:

- Chromic Acid
- Concentrated Nickel Solution
- Sodium Hydroxide
- 17.5% Hydrochloric Acid
- Mud Pool (biological waste)



A closeup of the ChemLine® coated floor prior to heat curing.



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After coating application, staging is set up in order to provide a high temperature heat cure to the coating.



Inside the covered staging area, heat curing furthers the protective cross-linking capability of ChemLINE®.

For this flooring project MarineLine Turkiye recommended using ChemLINE® Primer with two protective coats of ChemLINE® 784/32. The application was done as follows:

- First coat, ChemLINE® Primer Blue, at 200 microns
- Second coat, ChemLINE® 784/32 Red, at 200 microns
- Third coat, ChemLINE® 784/32 Grey at 200 microns grey

This totaled 600 microns thickness for the coating work.

Heat Curing Enhances Corrosion Protection

Following the application, MarineLine Turkiye installed staging and covered the exposed surfaces in order to have a controlled heat cure environment. The coating was then heat cured to enhance cross-linking of the polymer and create a virtually impermeable barrier.

The ChemLINE® coating was applied on the new flooring areas where the machines would later be placed. After the coating and heat curing were completed in these areas, MEFA installed the production machines.

A total of seven different flooring areas were coated with ChemLINE® 784/32. Each area was approximately 150 square meters in size, for a total coated area 1,050 square meters of concrete surface.

This project was the third major ChemLINE® project conducted for MEFA. A few years earlier a ChemLINE® coating project was done of approximately 1,000 square meters. A second project the following year involved coating MEFA's neutralization pits. A recent check of those first two projects showed the ChemLINE® coating to be working very well and in good condition.

With this third ChemLINE® coating project completed at Bolu, MEFA is extremely pleased with the protection afforded to its manufacturing operations.

The finished ChemLINE® floor is ready for the production machines to be installed. The new coating will protect against spills and splashes during the manufacturing process.

