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PROJECT PROFILE

PROJECT: ThyssenKrupp Steel Mill – Pipe Lining
LOCATION: Duisberg – Germany

THE PROBLEM

Iron ore contains a high percentage of very fine material that is unsuitable for feeding directly into the blast furnace. In order to make use of this product, it is first agglomerated by mixing with fine lime and coke. It is then passed through a flame chamber where it “sinters” (or fuses) together. The sinter plant is one way of recovering some of the fines produced in other parts of the steel making process.

The sinter is very abrasive and the working temperature is approximately 100°C. The pipe work linking various areas of the sinter plant required an extremely high performing internal lining to withstand these conditions. Our German Distributor, Thortex Deutschland was asked to provide a suitable coating system.



THE SOLUTION



The surface was prepared by abrasive blasting to SA 2.5 standard, creating a profile of 75 microns.

Three 250 micron coats of Chemi-Tech UC were applied to the interior of the pipe by roller. Chemi-Tech UC is the ultimate epoxy chemical resistant system providing excellent protection to steel and concrete surfaces, which are subject to aggressive acids, solvents and industrial chemicals.

After 18 months in service a recent inspection confirmed that the coating was still in perfect condition.