Slovak Nuclear Power Station

Chemical Protection of Concrete Floor

The USA Nuclear Power Station had an area where the chemical treatment of water takes place. A high performance, exceptionally chemical resistant coating was sought by the client to protect the floor area in this hostile environment.

The new concrete substrate was prepared in accordance with the System Recommendation ensuring that the aggregate in the concrete was not exposed and that all resultant dust and abrasive material was removed.

The surface was primed with 3M™ Scotchkote™ Epoxy Primer SP810 to a thickness of 100 microns (4 mils). Two coats of 3M™ Scotchkote™ Epoxy Coating 175UC, each to a thickness of 300 microns (12 mils), were then applied to the floor area. Scotchkote 175UC is a two component, 100% solids epoxy coating which has been developed for use as the ultimate chemical resistant system and has been used in many other nuclear industry applications.

This application was carried out using product under the Copon / Thortex brand. Following the acquisition of the company by 3M, all products are being rebranded 3M™ Scotchkote™.
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