



Hempacore[®] improves fire safety at Torun Sports Stadium

The university city of Torun in central Poland is a popular destination for students and tourists, and the city's new sports hall complex serves both visitors and locals alike. When a government Council commissioned the project, it wanted a coating solution that would not just protect the stadium from corrosion, but would also provide added safety in the case of fire.

Our solution was to combine proven anti-corrosive coatings with Hempacore FD, a fast-drying passive fire protection coating. When exposed to high temperatures, Hempacore FD produces an insulating layer of carbon char that enables structural steel to retain its load-bearing capacity for up to two hours, giving people in the building valuable time to evacuate.

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At a glance

Coating system	Hempadur Fast Dry 17410 Hempadur Mastic 45880 Hempacore FD 43601 Hempatex Hi-Build 46410
Total litres	8,500
Application	Airless spray and brush

The challenge

The Torun Sports Stadium requires a C2 and C3-classified coating system that will provide long-term corrosion protection. In addition, the customer wanted the coating system to improve safety in the case of fire.

The solution

As general constructor on the project, the construction services group asked a leading steel construction company to erect the steel structures and Hempel to provide the coatings, as well as on-site application support. Hempel have worked closely with our customers on a number of projects throughout Poland, but this was the first time that the team was using Hempacore FD 43601 – a fast-drying intumescent coating specified for on-site application – on such a large scale. Our Technical Service team was on-site throughout application to ensure it was applied correctly and efficiently.

The structural steel was primed with Hempadur Fast Dry 17410 and then coated with a thin layer of Hempadur Mastic 45880 before Hempacore FD was applied. A non-glossy acrylic topcoat – Hempatex Hi-Build 46410 – completed the durable, fire-retardant finish.



The Hempel Group Head Office

Hempel A/S, Lundtoftegaardsvej 91, 2800 Kgs. Lyngby, Denmark
Tel: +45 4593 3800 Email: hempacore.hempel.com
protective@hempel.com