



## Hempacore<sup>®</sup> 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

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