



Airport Hangar Fire Protection

The Project

When the steelwork of the new hangar 7, being constructed at Vienna Airport, Austria, needed protection from fire, the contractor, Haslinger Stahlbau, turned to Hempel for advice. The requirement was for a quick-drying, passive fire-protection coating system, to reduce overall construction time, whilst being capable of offering protection to the building in the case of fire.

The hangar has four main structural steel trusses, with a span of 100 metres, is 6.5 metres high, and has a surface area of 7,000 square metres.

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Hempacore protection for Vienna Airport

The Protection System

A three coat system was requested by Hempel's customer, SRB Rostschutz GmbH & Co. KG. Firstly, after the appropriate surface preparation, one coat of HEMPADUR FAST DRY 17410, a 2-component, polyamideadduct cured epoxy primer with excellent corrosion resistance and low temperature cure characteristics was applied. This was followed by one coat of HEMPACORE ONE FD 43601 – the fast-drying version (20 minutes to touch/6 hours to handle) of the high-performance intumescent coatings range or passive fire protection of steel structures.

The HEMPACORE ONE products are one-component, solventborne, acrylic intumescent coatings that provide up to 120 minutes of protection in cellulosic fires and can be used indoors or outside with a suitable topcoat. In this project, the top coat applied was HEMPATHANE 55210, a 2-component, acrylic polyurethane, which has a track record of providing high gloss and strong colour retention over many years of service. The complete coating system complies with Europe's fire-resistance requirements for steel structures.

The Result

Hempel were chosen in the face of competition, from national and global paint companies, because of the advice and technical service available, and the ability of being able to offer a fast drying, value for money protection system, that satisfied the end customer's demands for reliable, long-lasting protection in an aggressive environment.



The protection system was provided by a three coat system which meets the customer's demands for fast drying, reliable, long-lasting protection in an aggressive environment.

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