

Hempafire Extreme 550

Take your passive
fire protection to
the extreme



Uncompromising fire protection for 25 years and beyond

The market-leading epoxy passive fire protection available today.

Hempafire Extreme 550 isn't just an efficient solution — it's the ultimate in fire protection, ensuring safety and a peace of mind.

Engineered to meet the most demanding challenges, it's the leading epoxy intumescent coating that offers up to 4 hours of fire protection with up to 40% lower paint consumption for a reduced CO₂ footprint, delivering efficiency and sustainability.

It's designed for easier application, reduced process times and superior durability, even in industrial environments with high humidity, aggressive atmospheres or inshore areas with high salinity.

If you're looking to optimise fire protection application, cut costs and simplify processes, Hempafire Extreme 550 delivers complete structural steel fire protection even in C5* category environments and permanent external exposures, wherever they are in the world.

Its high mechanical strength minimises touch-ups after transport, while its solvent-free formula ensures a safer working environment. Whether for in-shop or on-site application, Hempafire Extreme 550 makes fire protection easier, reduces costs, and meets top industry and global certifications.

*C5 refers to ISO 12944 classification of highly corrosive environments, where steel structures are exposed to high levels of humidity, saltwater spray, and other corrosive substances.

Why choose Hempafire Extreme 550?

Innovation that delivers

- Market leading epoxy PFP coating
- Completes the PFP range – total protection and superior performance
- Uncompromising protection in C5* category environments and permanent external exposures

Efficiency redefined

- Up to 40% less paint consumption with fewer coats and lower DFTs
- Easier application to get your project moving quicker and reduce overall costs

Tough and durable

- Extreme durability to resist hard knocks and harsh environments
- More than 25 years of protection even in challenging conditions, ensuring long-term asset safety and compliance with ISO 12944-6 and EAD 350402-00-1106

Safer and more sustainable

- Solvent-free, 100% solids
- Reduces CO₂ footprint by up to 40% with less paint usage and low embedded carbon values
- Contributes to credits earned for Green Building Schemes (LEED® and BREEAM®)

Looking good for longer

- Wide range of topcoats to complement your architectural finish
- Smooth finish avoiding reworks to achieve an architectural surface





Efficient and effective fire protection

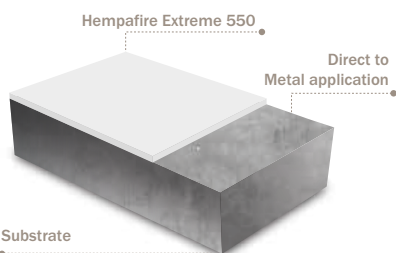
Hempafire Extreme 550 is optimised for large-scale infrastructure projects demanding exceptional durability and extended fire protection for 25 years and beyond. It delivers fire and corrosion protection with minimal touch-ups after transportation, and can be efficiently and easily applied directly to metal surfaces without requiring a primer or topcoat in environments up to C3*.

When paired with a primer, it delivers superior long-term performance in more demanding C5-high and exterior environments. A topcoat is only needed for aesthetic purposes, as Hempafire Extreme 550 alone is durable. It's compatible with a wide range of topcoats, including waterborne options, ensuring a durable, long-lasting colour finish with reduced emissions per square metre.

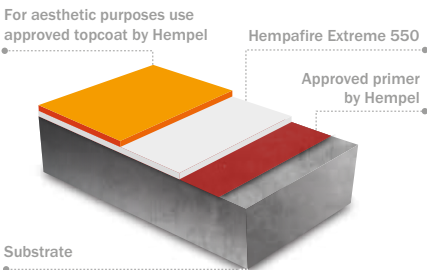
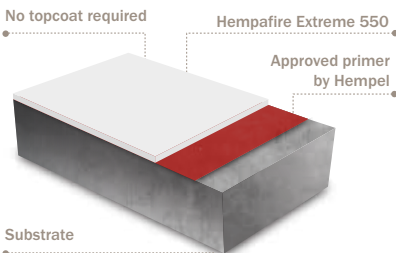
The complete solution for your project

Durability and protection	Efficiency and cost-effectiveness	Application advantages	Sustainability and compliance
Long-lasting durability (more than 25 years) in harsh environments, even without a topcoat	Reduced paint consumption by up to 40% resulting in lower costs	Easy application with reliable results, minimising delays	Solvent-free , 100% solids, very low VOC levels
High mechanical strength to prevent damage during handling and service life	High DFT per coat enabling protection in fewer coats	Simplified job-site application for steel connections and touch-ups	Contributes to EPD credits for Green Building schemes
Fire protection up to 4 hours , ensuring safety and compliance	Shorter process time with fast curing and fewer coats	Extended overcoating times with primers and topcoats	Reduces CO₂ footprint by up to 40% with low embedded carbon values and reduced paint consumption
Protects light steel (high Hp/As) for a variety of steel sections		Smooth finish compatible with a wide range of topcoats	Compatible with waterborne topcoats for very low VOC systems

For up to C3 High/type X exterior environments



For up to C5 High/type X exterior environments



*C3 refers to ISO 12944 classification of medium-level corrosive environment, typically characterised by urban and industrial areas with moderate sulfur dioxide pollution, or coastal areas with low salinity.

Reliable solutions designed for you

Hempafire Extreme 550 delivers a complete PFP solution specifically engineered for your project's needs, offering reliable and robust fire and corrosion resistance with up to 40% lower paint consumption. The solvent-free formula contributes to the reduction of CO₂ footprint by up to 40%, enhancing safety and sustainability and ensures more than 25 years of durable protection for reliable, long-term asset safety.



Our technical service team is here to help

Whether you're a fabricator, applicator, or managing a construction project, our fire protection experts are ready to provide tailored guidance on optimising fire protection process and application, ensuring smoother operations and greater efficiency.

Our team of estimation experts can also offer support and guidance to structural engineers, designers and estimators using Hempel Engineering and Estimation Technology 'HEET' Dynamic; innovative software that makes intumescent coating estimations on steel sections quicker and easier with 100% estimation accuracy.

Proven performance, certified standards

Hempafire Extreme 550 has been independently tested and approved to meet the highest fire protection standards globally.

- ✓ Approved according to EN 13381-8/9, BS 47620/22 and AS 4100-2020 up to 240 minutes
- ✓ Tested for cellular beams according to EN13381-9 and Yellow Book parts 5 and 6
- ✓ CE marked with European Technical Approval ETA no. 24/0660 according to EAD 350405-00-1106
- ✓ Third-party certified by ApplusFire (certificates APF-2132 and APF-2133)
- ✓ Environmental Product Declaration (EPD) according to EN 15084 - Type III (BREG EN EPD 000653)
- ✓ Complies with EU Directive 2004/42/EC: subcategory i

As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the decorative, marine, infrastructure, and energy industries. Hempel factories, R&D centres, and stock points are established in every region.

Across the globe, Hempel's paints and coatings can be found in almost every country. They protect and beautify buildings, infrastructure, and other assets, playing an essential role in our customers' businesses. They help minimise maintenance costs, improve aesthetics, and increase energy efficiency.

At Hempel, our purpose is to shape a brighter future with sustainable coating solutions. We firmly believe that we will succeed as a business only if we place sustainability at our heart. Not only is it the right thing to do, but it also strengthens our competitive position, makes us more resilient, and reduces our risk.

Hempel was founded in Copenhagen, Denmark, in 1915. It is majority-owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian, and scientific purposes around the world.

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