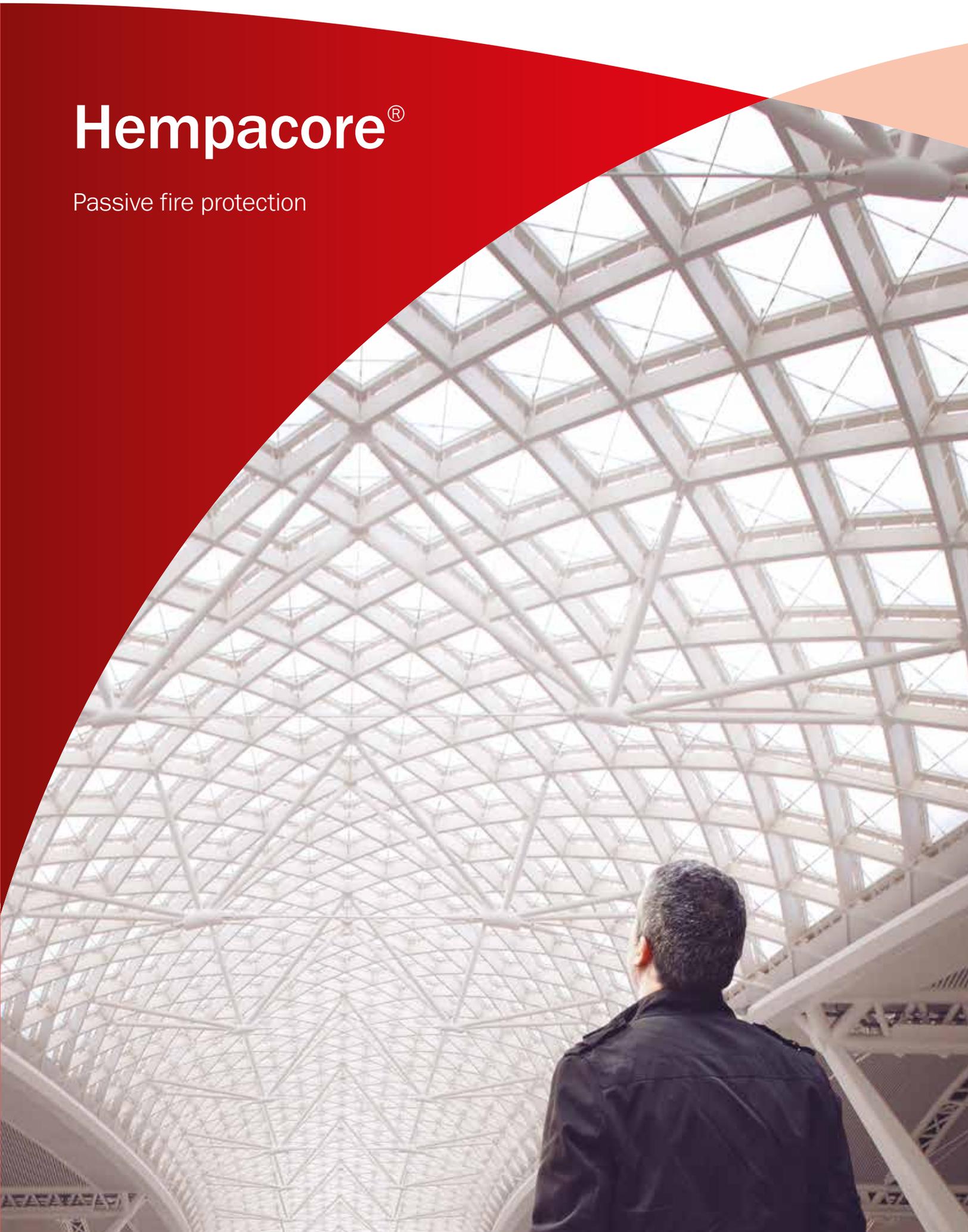


Hempacore[®]

Passive fire protection



World-leading coatings supplier

Hempel was founded in 1915 and today we rank among the world's leading manufacturers and suppliers of protective coatings. We offer advanced performance solutions to protect your assets in challenging environments in the protective, marine, container, decorative and yacht segment. We are present in 80 countries and have over 5000 employees, 28 factories, 48 sales offices and more than 150 stock points.

Proven performance

Our history is rooted in protective coatings for extreme conditions, so you can be assured that we offer trusted technology, expert technical service and reliable solutions. We have a full range of coatings that offer a winning combination of high performance protection and optimised application.

Research and development

With 15 global research and development facilities, Hempel works locally with you to provide the right solution for your project. Our research and development teams are committed to continuous development of innovative and effective speciality coatings to give you durable protection in aggressive industrial environments.

The addition of a new fire protection laboratory in Spain includes an advanced testing area with furnaces, pilot manufacturing and application in an impressive 1000m² area, giving even greater opportunities to advance our intumescent product offering.

Professional technical service

Hempel's multinational, globally based technical service teams are uniquely positioned to ensure the smooth running of your project. From planning to completion, specification to application, we have key people to support you both off and on site. 24 hours a day.



The core of fire protection

The intumescent coatings of our Hempacore range offer passive fire protection that lengthens the time a steel structure will remain intact during a fire. They provide longer evacuation times and allow emergency personnel more time to respond. That means that these advanced coatings solutions not only help to protect investments, but can potentially save lives.

Hempacore provides passive fire protection up to 150 min of cellulosic fire. Manufactured using high-quality raw materials, they give a high performance with low dry film thickness and fast drying times. We also offer coatings suitable for both on site and in shop applications.

Core benefits

Developed to optimise the safety of structures in the civil construction segment, Hempacore is also designed to make the application process easy and efficient.

By choosing Hempacore for your project you can profit from the following core benefits:

Durability

Hempacore products feature excellent toughness to ensure effective performance. Thanks to high quality raw materials they maintain their protective properties for many years to come. They can also contribute significantly to minimising any potential damage related to transportation, handling and weather exposure during the construction phase. You can count on Hempacore's quality to last.

Efficiency

Our expertise comes as standard with our intumescent solutions and you can count on us to make the process from specification to the end result as smooth as possible. You not only get products that increase productivity and minimise downtime, you also get the information and service that makes using them easy.

Flexibility

Our Hempacore range makes finding the right solution simple. Each coating covers a wide range of needs, so it takes fewer choices to meet all project challenges.



Hempacore has you covered

Our Hempacore range helps to protect structural steel both inside and out including:

- industrial halls
- public buildings
- stadiums
- exhibition halls
- airports
- railway stations
- supermarkets

Full system supplier

We have a broad range of primers and topcoats that are approved for use with Hempacore, giving us the flexibility to tailor-make a coating solution to fit any project. Having one supplier makes it easier for you to get the ideal coatings combinations, and you are assured that they are fully compatible.

Excellent application properties

Hempacore is designed with the applicator in mind.

- Competitive loadings give good fire protection performance at low DFT's
- High maximum dry film thickness per coat
- Wide application window to enable great working flexibility
- Easy application across wide temperature range
- Fast drying products
- Durable coatings that are less sensitive towards weather and potential damage during transportation and construction
- Products with a wide range of approvals to help you to minimise stock levels

Engineering support

Our specialists are ready to support your project from the initial stages. Just provide us with the project data and we will use our own dedicated specification software to propose the right solution for you. Our specialists ensure all factors are taken into account, such as the required fire protection properties, the architecture of the structure, profile types, application techniques, transport methods, local weather conditions, legislation, aesthetic and economic aspects of the whole project.

Long lasting protection and aesthetic appearance

Not only do you benefit from high corrosion resistance and passive fire protection, but you also achieve your desired decorative effect. Using our tailor-made coating combinations you can have a smooth and tough finish in any shade with excellent colour and gloss retention.



You can count on us

Tested for fire, weather and application

All Hempacore coatings are tested extensively at our dedicated fire protection research and development facilities. The fire protection performance is tested for up to 2 hours under turbulent conditions, where the fire temperature is over 1000°C.

In addition, we make sure that on site conditions and the effects of weather will never compromise the level of fire protection the coating provides. Real-life scenarios are simulated by testing weathered coating systems and profile sections that have loads applied. For weather durability we test the products in cycles with extreme temperature shocks across the range -20°C to +70°C, and where the relative humidity reaches up to 95 per cent (+/-5 per cent). Application properties are also tested in a broad range of climatic conditions.

Our commitment to quality

We pride ourselves on consistency. Our strict quality control systems ensure that Hempacore conforms to the same high standards all around the world.

- All our factories are ISO certified
- We make sure that all raw materials used are of the same high quality
- We follow strict internal and industry guidelines for quality control at all Hempacore production sites to make sure that the fire performance meets requirements

This commitment to consistent quality ensures that you always know precisely what you are getting. We're there when you need us.

Environment

At Hempel, we support the protection of the environment and are fully committed to sustainability. We work actively to reduce the impact of our operations on both the community and the environment, within the limits of sound economics and currently available technologies. Our range of coatings includes low or no-solvent and low or no-VOC products, allowing our customers to comply with the most demanding environmental requirements.

Certifications and approvals

With the Hempacore intumescent range, you get coatings with a very wide scope of both international and local approvals.

The global approvals include:

- BS 476-21
- EN 13381-8
- GB 14907
- GOST 53295
- AS1530.4

For more information, please contact your local Hempel office.

Tailor-made for the cold

Seafood cold store renovation, Faroe Islands

When Parlevliet & Van der Plas, a Dutch fishing and seafood company needed to protect their cold-store, their contractor Metaalbescherming Katwijk (MBK) chose Hempacore. The cold-store, located in the Faroe Islands is bound by regulations governing foodstuffs marketed in the EU, while the prevailing environment is classed (ISO 12944) as C4 in terms of steel corrosion. Another challenge of this project is compliance with the EN standard 13381-8 on reactive fire-resistance protection applied to steel structures. As part of a tailor-made system, Hempacore will give the structure reliable, long-lasting protection in this aggressive environment.



The system

Hempadur Fast Dry 17410
Hempacore One FD 43601
Hempathane 55210

Safe landings

Vienna Airport, Austria

When Haslinger Stahibau needed technical advice on coatings for the new Hangar 7 at Vienna Airport, Austria, they turned to Hempel. The need was for a quick-drying, passive fire-protection coating system that would contribute to reducing overall construction time, whilst being capable of offering reliable, long-lasting protection to the building in the case of fire. A system including Hempacore offered the right solution and was chosen by the applicators, SRB Rostschutz GmbH & Co. KG. The result is a high gloss surface finish with strong colour retention that complies with Europe's fire-resistance requirements for steel structures and will look good for years to come.



The system

Hempadur Fast Dry 17410
Hempacore One FD 43601
Hempathane 55210

Advanced protection against corrosion and fire

Avantguard® and Hempacore intumescent coatings together provide excellent protection for structural steelwork.

Avantguard is our innovative, award winning¹ anti-corrosion technology, based on activated zinc and proven to deliver superior corrosion protection compared to competitor zinc rich epoxy products².

Our Hempacore intumescent fire protection coatings are perfect for wide range of structures, from sports stadiums to airports and skyscrapers, ensuring structural integrity in case of fire, for up to two hours.

Our patented Hempadur Avantguard coatings make ideal primers for fire protection systems and are approved for use with Hempacore One and Hempacore One FD.

Our customers not only benefit from excellent anti-corrosion and fire protection in a single system, but also from a best-in-class fast drying primer³ and easy application that saves both time and money during construction.

Visit avantguard.hempel.com for more information.

1. Avantguard won the prestigious 2014 European Frost & Sullivan Award for New Product Innovation and NACE's MP Corrosion Innovation of the Year Award 2015.
2. This superiority has been independently proven by third party laboratory neutral salt spray tests according to ISO 9227. In this test, steel protected with Avantguard produced a lower evolution of rust creep, assessed according to ISO 12944-6, when tested up to 3x the duration for C5-high environments.
3. Avantguard's overcoating interval is a minimum of 33% faster than competitor zinc-rich epoxies when comparing product data sheets.

Since 1915 Hempel has been a world-leading coatings specialist, providing protection and inspiration to the world around us. Today we have over 5,500 people in 80 countries delivering trusted solutions in the protective, decorative, marine, container, industrial and yacht markets. This includes many recognised brands like Crown Paints, Schaeppman and Jones-Blair.

Hempel is proudly owned by the Hempel Foundation, which supports cultural, humanitarian and scientific causes across the world.

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