

Press release

18 March 2024

Key messages

- Hempatherm IC is Hempel's first thermal insulation coatings system.
- The Hempatherm IC system possesses one of the highest film build capabilities in the market.
- Hempatherm IC 170 and Hempatherm IC 175 are used together as a coatings system, capable of replacing many conventional insulation systems for service up to 177°C, where CUI risks are most prevalent.
- The system is a hydrophobic coating containing Aerogel technology to prevent water ingress and retention on industrial assets, thereby maintaining thermal performance of the insulation and reducing carbon footprint.
- The Hempatherm system is a more sustainable solution, thanks to its long service life.
- Maintenance of both the assets and the insulation system is faster and easier, yielding substantial cost savings.
- The Hempatherm IC system addresses the critical challenge of energy conservation in industrial settings.

Hempel introduces Hempatherm IC, its first thermal insulation coatings system

As the need to control maintenance costs and manage Corrosion Under Insulation (CUI) increases, leading coatings manufacturer, Hempel A/S, introduces the Hempatherm IC. The seamless coatings system, with one of the market's highest film build capabilities, offers superior protection and mitigation of CUI by significantly reducing the risk of water ingress and retention.

Made up of Hempatherm IC 170 and Hempatherm IC 175, the system is designed to replace many conventional insulation systems in the critical CUI temperature range. It provides both thermal insulation and mitigation of CUI, thereby maximising the service life of industrial equipment and assets.

"Process industry operators are constantly looking for solutions that reduce the risk of CUI, while managing their personnel safety and energy consumption in a responsible way. They want robust solutions to minimise disruption and deliver long-term value," says Zechariah Lim, Product Manager CUI/High Heat & Insulation at Hempel. Zechariah continues: "The Hempatherm IC system offers just that. It is designed with our customers' need for energy conservation in mind, without the risk of associated CUI. Coatings provide a simple and elegant alternative to meet this requirement, while promoting cost competitiveness, productivity, and sustainability over its service life for all stakeholders across the value chain."

David Hunter, Segment Development Manager, CUI/High Heat & Insulation at Hempel adds: "Hempel is excited to be part of the market shift from mechanical insulation to an advanced insulation coatings system. Insulation coatings have over 25 years of proven performance, but up until now, limitations on coating film thickness have limited thermal insulation coatings as a comparative alternative. Our Hempatherm system provides one of the market's highest film builds per coat, with a

material engineered to maintain thermal performance over the service life, often in the range of 15-25 years.”

With the Hempterm system, Hempel provides next level insulation solutions for process control and energy conservation, thereby empowering industries to achieve optimal operational performance.

The Hempterm IC system at a glance:

- One of the highest film builds per coat of any insulation coating.
- Prevents water ingress and retention on insulated equipment, thereby eliminating the risk of CUI.
- Aerogel filler provides low thermal conductivity, capable of replacing many types of conventional mechanical insulation within the critical CUI temperature range, from - 25°C up to 177°C (350°F)
- Resistant to cyclic temperatures and fluctuations.
- Non-flammable formulation allows for safe application on hot surfaces for quick maintenance to ensure assets are kept in service with minimal disruption to operations.
- Inspections can be done visually as there is no hidden risk behind jacketing. Ease of installation with no requirement for handling metal jacketing. Can be applied over complex geometries.
- Prevents solar heat gain with minimum of thickness.

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About Hempel

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 of the world. They protect and beautify buildings, infrastructure and other assets, and play 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, it will strengthen our competitive position, make ourselves more resilient and reduce our risk.

Hempel was founded in Copenhagen, Denmark in 1915. It is proudly 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. www.hempel.com