International.

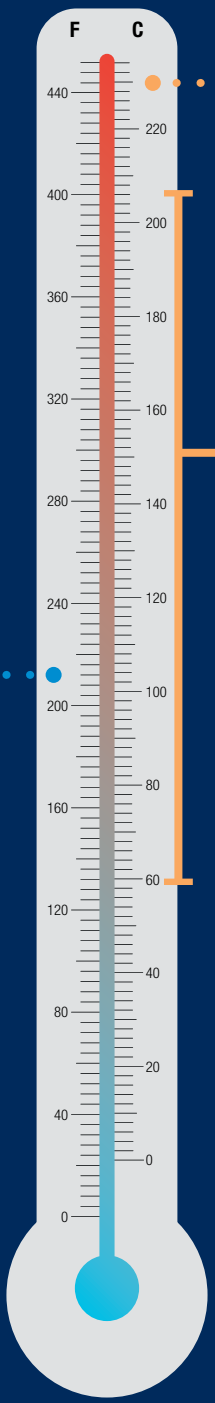
Intertherm® 2205

A critical repair solution for high temperature equipment.

Avoid shutdowns and turn your coating applicators into facility heroes!

Cures ready to reinsulate after 10 minutes*

*When applied at temperatures above 212°F



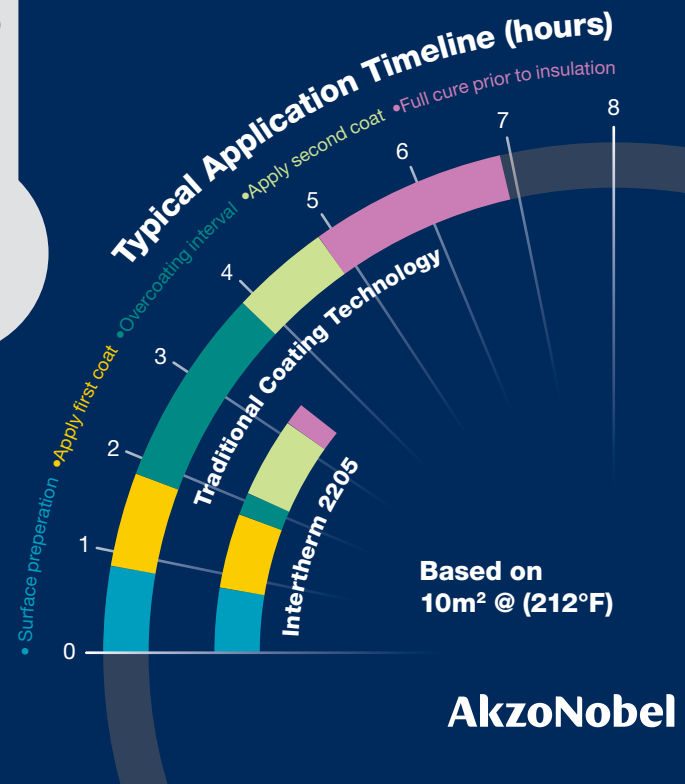
Up to 446°F (230°C)
Temperature resistant in aggressive cyclic environments that also enter the under insulation zone zone

From 140°F (60°C), now to 401°F (205°C)
Hot application to live equipment

Reduces HSE risks
with low VOC, minimizing emissions when applied onto high-temperature substrates

As a coating applicator in the oil and gas industry, temperature is both a friend and enemy. Coatings need to be prepared and made ready for application or cured and made ready for re-application or re-insulation; both scenarios are highly suspectable to cold conditions. Whereas high-heat substrates of plant components and pipework that are part of a fully operational facility are often far too hot for most traditional coating solutions.

A maintenance crew at an oil and gas facility in Europe discovered a new solution to this age-old problem that normally would require a maintenance shutdown. Instead, they were able to apply Intertherm 2205 in ambient temperatures of just 38°F (3.2°C) to pipe with surface temperatures of 290°F (143°C), without expensive disruptions to production. After brush application to the hot steel and curing for only 10 minutes, not only was the hardness sufficient enough for DFT testing, but the thickness met specification parameters. The applicators were impressed with the dry time and how quickly insulation could be applied to the pipework. Intertherm 2205 showed excellent applicability to hot surfaces, drastically decreasing the cure time required for re-insulation.



AkzoNobel

International

Real world problems

Solved!

When corrosion is discovered at a Petro-Chemical facility it's critical to address the problem immediately in order to avoid potentially disastrous consequences.

Unfortunately, most protective coatings don't respond well to 'immediate' application or the high temperatures associated to such facilities. Even more important perhaps is that the coating solution addresses the problem without expensive shutdowns due to lengthy surface preparation, cure times and re-insulation. Any potential coating solution should also be able to stand the test of time, delaying future costly interventions as long as possible.

Petro-Chemical facility

Our customer in Europe had this exact same set of circumstances with a pipe bridge at their facility that was minimally prepared after hand tool cleaning to St2/SP2. The hot spread epoxy phenolic coating was applied to the pipe surface at 257°F (125°C). The excellent brushing properties gave a smooth continuous film, with a low level of solvent fumes emitted, which was hard dry in less than 10 minutes with an average dry film thickness from 10 measurements of 8 mils (200µm).

Seven months later the pipes were inspected, which reported no cracks or film defects of any kind and concluded that the condition of the hot spread epoxy was virtually the same as the day it had been applied!

Refinery

As a maintenance technician at a fully operational refinery in the UK, when you're called in to do a repair on hot piping, the last thing you want to worry about is extensive surface preparation or coating issues during application. In such temperature flux environments, the viscosity of the coating itself can be a crucial factor in ensuring that the protective coating can be applied to the correct DFT standard. Viscosity also plays a central role in creating a continuous film layer which prevents pinholes and therefore, helps to prevent CUI. After applying three coats of Intertherm 2205, the applicator was very happy with the viscosity of the coating system and how easy it was to work with, making this critical repair a highly productive and hassle-free experience.

Chemical Facility

Our customer in the Netherlands is responsible for maintenance for a major chemical facility. They take enormous pride in the quality of the maintenance work that they perform for their client and are therefore a discerning customer that is highly critical of new coating technology. When we introduced the applicator to Intertherm 2205 for the first time to coat piping that had surface temperatures of 125°C and 105°C using airless spray in most areas but brush and roller application in other areas, they were very surprised that the coating was so continuous, had a hard dry time of less than 10 minutes and yet showed no visual defects such as pinholes. Always concerned about the health and safety of their personnel, they were pleased that despite a very robust application, there were very little fumes during the process. After experiencing the application and coating quality of Intertherm 2205 only once, our typically highly critical customer said, **"I am sold!"**.

international-pc.com/products/intertherm-2205

AkzoNobel