

PPG HI-TEMP™ 900

New-build, multi-purpose, high-temperature corrosion protection coating

Our heat-resistant coating delivers superior corrosion resistance with excellent speed of application and handling.



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Resistant to an extreme temperature range from -300°F to 900°F (-185°C to 482°C) with the following benefits:

- Ideal for new-build and shop application
- Provides superior corrosion resistance
- Primer for direct-to-metal application
- Prevents corrosion under insulation (CUI)
- Prevents chloride-induced external stress corrosion cracking of insulated austenitic stainless steel
- Excellent UV stability to prevent corrosion of non-insulated surfaces subject to atmospheric exposure
 - Can be topcoated with custom colors
- Simple to use: two-component 5-1 ratio; high-build; complete crosslink curing at ambient temperatures
- Tested and passed third-party testing:
 - Multi-phase CUI chamber test
- Continuous dry temperature resistance to 900°F (482°C)
- Cyclic immersion service from -300°F to 600°F (-185°C to 316°C)

Long-lasting protection

The PPG HI-TEMP 900 coating prevents corrosion in insulated- and non-insulated services for carbon and stainless steels over an extreme temperature range from -300°F to 900°F (-185°C to 482°C) even in thermal cyclic- and thermal shock conditions. Corrosion under insulation (CUI) is one of the industry's major concerns leading to high costs for refineries and petrochemical facilities. CUI can result in accidental facility shutdowns and potentially cause environmental issues, personal injuries and negatively affect company reputations. As a result, there are a number of key properties that a coating must have in order to be effective.

Resistance to boiling water

The PPG HI-TEMP 900 coating is resistant to intermittent immersion in boiling water. Designed to resist the severe 'real world' conditions of a continually changing harsh environment, it is developed to withstand the repeated cycle of thermal shock, immersion in boiling water, and quench.

Temperature, thermal shock, and thermal cycling resistance

Thermal shock can be a significant cause of CUI. Thermal shock can cause cracking, fracturing and delamination, which allows water to come into contact with the insulated steel, leading to CUI. The PPG HI-TEMP 900 heat-resistant coating is able to withstand severe cyclic conditions without affecting the coating.

Simple to use

The ability to apply the coating in one coat with a complete crosslink curing at ambient temperatures provides speed of application and handling in the shop.

Established worldwide track record with excellent results

Top-class, international refineries and petrochemical facilities have used the PPG HI-TEMP coatings for over 14 years with millions of square meters protected for CUI and high-temperature service. The list of clients and case studies is available upon request. Please contact your local PPG sales representative for more details.

Visit ppgpmc.com or contact:

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