PPG HI-TEMP 1027™

Heat-resistant coating prevents corrosion under insulation (CUI) in extreme temperature ranges

Our proven and simple to use technology reduces downtime and maintenance costs.
Corrosion under insulation (CUI) is one of the biggest and costliest problems facing today’s refineries and petrochemical facilities. PPG HI-TEMP 1027 coating is the ideal solution as it not only prevents CUI but can also be applied directly to hot carbon and stainless steel substrates, thereby eliminating the need to shut down equipment for maintenance and repair.

Excellent choice for maintenance – easy for touch-up and repair

Formulated for easy application, our PPG HI-TEMP 1027 coating is surface tolerant, and can be applied to tightly adhering rust in maintenance and repair situations. Its unlimited recoat window also makes future touch-up and repair tasks easier.

Proven, long-lasting protection

We formulated the PPG HI-TEMP 1027 coating specifically to operate in extreme temperature conditions where pipes and other assets are exposed to process temperatures ranging from –196°C to 650°C (-321°F to 1,200°F) taking all the key properties into account that a heat-resistant coating must have in order to be effective.

Resistance to boiling water

PPG HI-TEMP 1027 is resistant to intermittent immersion in boiling water. Designed to resist the severe ‘real world’ conditions of a continually changing harsh environment, it can withstand the repeated cycle of heat, then thermal shock, then immersion in boiling water, then back to heat, and so on.

PPG HI-TEMP 1027 heat-resistant technology is able to withstand severe cyclic conditions in the cryogenic temperature range through to an elevated temperature of 650°C (1,200°F), with no affect on the coating.

Heat and thermal shock resistance

Cracking, fracturing and delamination caused by thermal shock allows water to come into contact with insulated steel and is therefore a major cause of CUI.

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Direct application to hot steel up to 316°C (600°F)

Chemical plants and refineries affected by CUI often cannot, or will not, shut down the equipment. To meet this challenge, we have developed PPG HI-TEMP 1027 so that it can be applied directly to hot operating equipment and surface application temperatures up to 316°C (600°F). This reduces expensive plant shutdowns and potential revenue losses.

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