

**Maintenance of high-temperature equipment** is a challenge that the oil and gas industry faces year-round, with increasing pressure to reduce costs and improve plant efficiency.

Hot Application

**Risk of Early Failure**

Field data shows traditional coatings applied to online, high temperature pipes can fail after just two years in service.

**Intertherm 2205**

Provides extended lifetime when applied onto hot, hand prepared steel up to 205°C (400°F), allowing production to continue, without shutdown.

**\$10,000 per hour**

Asset shutdown can cost >\$10,000 every hour in lost production.

Cyclic Process Equipment

Cycling from

**-196°C to 650°C (-320°F to 1202°F)**

Cyclic temperatures can be very damaging to coatings and can rapidly cause major failure, leading to unplanned shutdowns.

**Intertherm 751CSA**

Cold Spray Aluminium solution with excellent flexibility, designed for cyclic high temperatures.

**> \$1,000 per m<sup>2</sup>**

**Cost of CUI remediation**

Remedial work to combat damage caused by corrosion under insulation (CUI) and cyclic high temperatures can take up more than 60% of a facility's maintenance budget.

Insulated Pipes, Valves & Vessels

**Overapplication**

The challenge of applying coatings during maintenance mean that over-application of DFT is common, often leading to cracking in service and unplanned additional maintenance costs.

**Interbond 2340UPC**

Performance up to 230°C (446°F) with excellent tolerance to over-application and a fast, low temperature cure.

**Low Temperature**

Application of traditional CUI coatings is challenging in cold weather, impacting maintenance schedules.

With these challenges in mind, AkzoNobel has launched a specialist maintenance solution range for CUI and cyclic temperatures. This innovative, carefully formulated range is made up of three different coatings, each designed to provide maximum protection in maintenance conditions with minimum downtime.

**Solution**