

Intertherm 751CSA

Trusted cold spray aluminium technology,
a specialist solution for high temperature maintenance

Temperature and corrosion resistance?

Protection against corrosion under insulation?

Intertherm® 751CSA gives you it all.

Suitable for application on cyclic equipment and pipework, Intertherm 751CSA bridges the performance gap between conventional coatings and thermal sprayed aluminium (TSA).

Product features

- High performance, temperature resistant “cold spray aluminium” based on titanium modified inorganic copolymer technology
- Specifically designed to provide a corrosion resistant barrier to steelwork in both atmospheric service and under insulation operating in thermal cyclical conditions between -321°F (-196°C) and 752°F (400°C)
- Excellent resistance to “thermal shock” experienced during rapid temperature cycling
- Effective in maintenance situations when used to mitigate the damaging effects of corrosion under insulation (CUI)
- Can be applied at 8 mils (200µm) in a single coat using standard application equipment and cures effectively at ambient temperatures
- Suitable for application to steel substrates operating at temperatures up to 302°F (150°C)

Intertherm 751CSA is an innovative, temperature resistant “cold spray aluminium” based on inorganic copolymer technology

Intertherm 751CSA has been developed as a result of more than 10 years extensive research and development into high temperature corrosion mechanisms.

The material has a wide range of features that make it ideally suitable for a variety of applications from flare stacks, furnace surfaces, heat exchangers, and the piping industry.

Cyclic temperature conditions

Suitable for protecting steelwork that is exposed to a wide range of highly corrosive environments, particularly insulated pipe work subjected to wet and dry cycling, operating at temperatures up to 752°F (400°C). Intertherm 751CSA also has excellent resistance to thermal shock experienced during rapid temperature cycling.

It is capable of providing corrosion protection to steel in both atmospheric service and under insulation operating in thermal cyclical conditions between -321°F (-196°C) and 752°F (400°C) without the need for additional heat curing prior to being placed in service. This ensures the integrity of correctly applied anti-corrosive schemes are maintained when plants are restarted after shutdowns.



In situ maintenance on plant

Maintenance and refurbishment of high temperature process plant and equipment has its own unique set of challenges. Not only can the steelwork be exposed to high temperatures during operation, but also access to the structure is sometimes limited which often makes the application of thermal metal spray (TSA) impractical.

Intertherm 751CSA is a cost-effective alternative. Typically applied direct to metal, as a one or two coat system, Intertherm 751CSA offers the flexibility of application using standard equipment and is particularly effective in maintenance situations when used to mitigate the damaging effects of corrosion under insulation (CUI).