

SprayClad®

SprayClad 'Best in Class' for Boiler Protection

As the go-to provider of engineered wear solutions, Welding Alloys Integra™ has developed a unique spray solution to prevent the erosion and corrosion on boiler panels and in vessels.

SprayClad is a arc spray process developed to deliver a bond and hard coat, finished with a sealant to that reduces slagging and cleaning.

Features

- A tailored solution to fit your needs
- Layered cladding that can combine corrosion and erosion resistance
- Rapid deposition rates up to '1m²' per hour per machine
- "Cold" process - no heat effected zone
- A thin coating - 500 to 800 micron total thickness
- Smooth anti-stick finish

Benefits

- Adaptability of the coating tailored to your plants needs
- Improved corrosion and/or erosion resistance
- Up to 75% faster than traditional cladding techniques
- No water needed in the heat exchanger
- Reduced fouling and cleaning



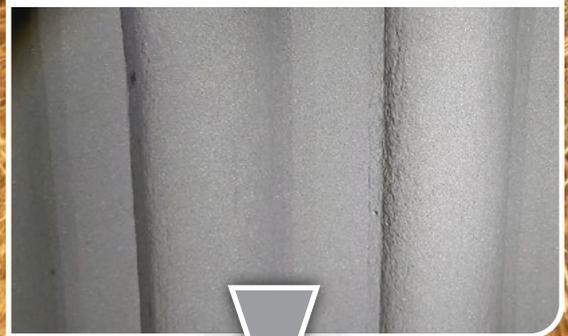
Original tubes in situ



Area marked for spraying



Cleaned and profiled tubes



Quality Control



Delivered to shield against wear

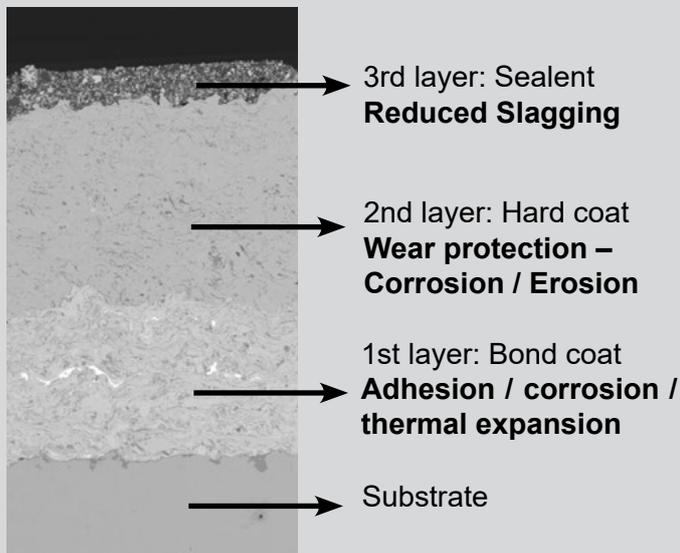
SprayClad has been designed to withstand long exposure to corrosive gases and salts at high temperature, in applications for Waste to Energy, Biomass and Coal fired power boilers. This process is also suitable for black liquor boilers and for fume extraction hoods in the steel industry.

The material loss caused by the salts and gases can lead to unplanned shutdowns and downtime for your plant. Repairing these tubes in-situ with cladding can be costly, time consuming, and difficult.

Critical areas within your plant, such as water walls and super heater tubes, can benefit from our **SprayClad** solution. We deliver a 3 layered resistant barrier;

1. The bond coat; A layer deposited straight on top of the heat exchanger's base material.
2. The hardfacing; The core protection against corrosion and/or erosion.
3. The sealant; Consisting of a complex mix of advanced ceramics which offers corrosion and erosion protection.

The Welding Alloys Approach

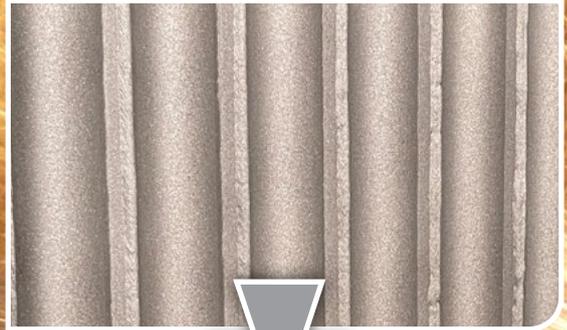


SprayClad is a solution developed with in collaboration with world leader academic organisations and tested with leading OEM's and international welding experts. It has proven to increase the lifetime and performance in many applications.

Initial Spraying of tubes



After application of wear layer



Quality control of coating thickness



Final product with ceramic sealant

