

CERMACLAD™ LT

PERFORMANCE AT THE SPEED OF LIGHT

METALLURGICAL CLADDING SERVICES FOR STEEL PIPES (ID and OD), PLATES, BARS & SHEET PRODUCTS

CERMACLAD™ LT low-thickness, cost-effective Aluminum and Stainless Steel cladding provides a true metallurgical bond on metal substrates at thicknesses between 0.1-1mm, at a very high production rate.

Benefits

- Extended Life (75-200 years maintenance free life)
- Environmentally friendly alternatives to
 - Cadmium and Chromate primers
 - VOC containing Polymer overlays
- Low thickness
- Smooth, Porosity free
- Corrosion Resistant
- True Metallurgical Bond
- Very High Production rate
- Resistant to higher temperatures than conventional coatings systems or FBE
- Passive Cathodic protection

Current Status

- Developed Coatings have survived 1000+ ASTM hours of Salt Fog Corrosion Test
- Tests indicates true metallurgical bond
- Able to control the phase and microstructure
- Evaluating Aluminum coatings for Pipe OD applications

About Us

MesoCoat provides wear and corrosion solutions using innovative surface engineering technologies, and is fast becoming a world leader in metal asset protection and repair through their breakthrough 'high speed' metal cladding process (CermaClad™), 'low cost' nanocomposite cladding materials (CermaClad™), and 'life extending' nanocomposite coating materials (PcomP™).



Applications

- Rebar
- Bridges
- Infrastructure
- Construction
- Pipeline OD
- Ship Construction



Contact Us

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CERMACLAD™ Claddings protect large-area, metal structures and components from the environment, reducing life-cycle cost and extending the life of large capital assets.

Value

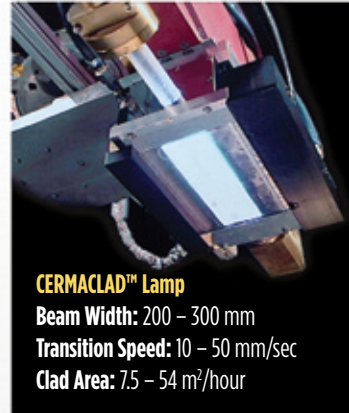
Metallurgically bonded coatings and claddings at lower cost than weld overlay.

Performance

Advanced nanocomposite metals and cermets for improved corrosion resistance, durability, and wear performance.

Delivery

25-180X faster than weld/laser cladding, coverage of 75-580 sq.ft./hour with a single system and Matches line speed of steel mills.



CERMACLAD™ Lamp

Beam Width: 200 – 300 mm

Transition Speed: 10 – 50 mm/sec

Clad Area: 7.5 – 54 m²/hour



Laser Cladding Head

Beam Width: 5 – 7 mm

Transition Speed: 20 – 70 mm/sec

Clad Area: 0.3 – 1.8 m²/hour



CERMACLAD™ Value Proposition

Faster Application rate

- 25-180 times faster than conventional laser/weld cladding processes

True Metallurgical Bond

- Bond strength > 75,000 psi

Low heat input to the substrate

- Small heat affected zone
- Strength retention of Substrate

Better Cladding

- Smooth, pinhole free
- Low dilution
- No decarburization

Cladding Solutions for:

- Oil and Gas
- Infrastructure
- Mining and Mineral Processing
- Chemical and Petrochemical
- Energy (Clean Coal, Hydro, Nuclear)
- Desalination
- Pulp and Paper
- Marine

MesoCoat's Vision is to be the global technology leader providing transformational surface engineering solutions.

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MESO COAT