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INFORMACJA POUFNA

Technical data sheet

GreenEco

PRODUCT DESCRIPTION:

The **GreenEco** coating is an advanced, high-emissivity ceramic material specifically developed to protect boilers and tubes made of carbon and stainless steel against corrosion from the combustion of coal, biomass and other organic fuels, as well as corrosion from urea discharged from malfunctioning SNCR metering systems (urea injection nozzles).

The coating is a high solids material that can be applied to a dry film thickness of 150 to 500 microns. The material does not contain VOCs (Volatile Organic Compounds).

The **GreenEco** coating is characterized by very high resistance to high-temperature corrosion and erosion. It will effectively reduce slagging and deposition of various contaminants; it meets specific requirements in the field of heat management.

The **GreenEco** coating is characterized by good adhesion to a properly prepared carbon and stainless steel substrates.

Coating performance / storage - up to one year for factory sealled container.

After curing, **GreenEco** becomes a durable continuous, pore-free ceramic coating that protects the boiler, furnace tubes and other steel substrates at temperatures up to 1000°C and shows high resistance to thermal shocks in a wide temperature range, up to 1150 ° C.

The **GreenEco** coating is also used as a sealant for thermally sprayed metallic coating, preventing their degradation in high temperature corrosive environments.

PHYSICAL PROPERTIES:

Color - green

Finish - Smooth

Maximum working temperature (substrate) - 1000 ° C

Adhesion - 16.55 MPa

Tensile strength - 23.10 MPa

Kinematic viscosity - 9.70 mm2 / s

Note: Physical properties were determined on samples prepared under laboratory conditions using the appropriate ASTM procedures. Actual working conditions may differ from laboratory conditions and result in different results.

COATING CHARACTERISTICS:

- Continuous use up to 1000°C

- Resistant to cyclic thermal shocks
- Corrosion and erosion resistant
- Very good heat conductor
- Protects against slag and other contaminants
- Resistant to gases, oils, solvents and most acids
- Non-toxic and non-reactive
- Forms a strong bond to carbon steel, stainless steel, refractory materials and other organic surfaces

INDUSTRIAL APPLICATIONS:

- Power plants
- Refineries
- Chemical plants
- Cement plants
- Pulp and paper industry
- Steel processing
- Waste incinerators
- Gas heated furnaces

POWER GENERATION APPLICATIONS:

- Surfaces near the urea injection system (SNCR)
- Waterwalls
- Superheater and heater tubes
- Tube bends and elbows
- Wall blowers
- Stacks
- Heating ducts and tubes
- Collectors
- Tubes for radiant heaters
- Economizer tubes

TECHNICAL DATA:

- Ingredients - one-component material
- Drying time between successive layers for RH = 50%, 21 ° C - 1 hour
- Solids content - 88%
- Theoretical coverage for 25 microns - 55.75 m2 / gal
- Thinner - not required
- Metal temperature during application - 10 - 66 ° C
- Weight - 6.89 kg / gal (1.82 kg / l)
- Storage temperature - 0.5 - 38 ° C
- Shelf life - 1 year for factory sealed containers