



HEAT RESISTANT ALUMINIUM 600

Product code: PS3404

Composition and Application Field

EVI Heat Resistant Aluminium 600 is a high temperature resistant coating based on inorganic binders pigmented with a highly leafing thermally stable aluminum pigment. The product resists intermittent exposure up to 600°C and continuous exposure of 500°C.

The product can be applied directly on properly prepared metal substrate. It can also be applied over an inorganic zinc coating but the temperature exposure will be limited to 400°C due to the melting point of Zinc.

The product dries by solvent evaporation which facilitates easy handling and transport. Before putting into service, the product needs to be cured at 200°C to 250°C for 30 minutes to 1 hour for best resistance performance.

Use

Substrates: Steel Substrates

Area of Use: Exterior surfaces of: Kilns, furnaces, boilers, manifolds, process vessels, exhaust pipings, vehicle exhausts and all other metals exposed to high temperatures.

Specification

Finish	: Satin / Matt
Colour	: Bright Aluminum
Specific gravity	: 1.00 ± 0.02
Volume solids	: 30 ± 2%
Diluent	: Aromatic Solvents
Flash point	: 28°C (mixed)
Spread Rate	: 10 – 12 sq. m/ lit.

Recommended DFT

2 coats of 1 mil when applied direct on substrate.

1 coat of 1 mil when applied over Zinc Silicate.

Heat Resistance : Up to 600°C

Surface Preparation

All surfaces must be free of dirt, oil, grease, moisture and other foreign matter prior to blast cleaning. Grind off all rough weld and edges. Remove all weld spatters. Blast clean to near white metal as per SSPC SP 10 or ISO 8501-1 SA 2.5. The steel profile after blast cleaning should be in the range of 0.3 to 1 mil in depth with an average of 0.5 mils. Surfaces should be free of grit dust. The paint should be applied as soon as possible after blast cleaning to avoid re rusting or contamination. Spot prime all bare areas as recommended before applying the finish coat.

Application Method

Always ensure adequate ventilation during paint application for reasons of health and safety and also to facilitate and speed up drying. Avoid high humid conditions i.e., >95% when condensation is likely to interfere and also when the surface temperature is at least 3°C above dew point. Always mix the paint properly to ensure homogeneity before application.

- 1. Dilution:** Dilution is not required
- 2. Brush:** Recommended in areas where spraying is not possible.
- 3. Roller:** Use on large flat surfaces when spraying is not recommended.
- 4. Airless spray:** A 30:1 pump is adequate, 0.011 tip orifice will provide the best pattern.

Apply a maximum of 1 mil (25 microns) thickness per coat allowing the first coat to dry before applying the succeeding coat.

Paint System

EVI HEAT RESISTANCE ALUMINIUM 600

-EVI Zinc Silicate Primer

1 coat of 2 mils

-EVI Heat Resistant Aluminium 600

1 coat of 1 mil

OR

-EVI Aluminium Paint Heat Resistance

2coats of 1 mil

- Or as per EVI technical advice.

Storage & Shelf Life

Under dry and cool condition, Storage stability can be sound up to 18 months in original sealed containers.

HANDLING

Disposal: As per the guidance and legislations of the local Authority e.g., by controlled landfill. In case of doubt, consult local authority. Do not empty into drains, sewers or other water courses.

Flash Point: 28°C and contains aromatic solvents.

Caution: It is strongly advised not to keep open half used drums as it forms a skin on the top layer.

Safety Precaution

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream. Other industrial practices are applicable. Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapor or spray. MSDS is available on request for the safe handling of this product.

FIRST AID

Eyes: In the event of accidental splashes, flush eyes with warm water immediately and obtain medical advice.

Skin: Wash skin thoroughly with soap and water or approved Industrial cleaner. DO NOT USE solvent or thinners.

Inhalation: Remove to fresh air, loosen collar and keep patient rested.

Ingestion: In case of accidental ingestion DO NOT INDUCE VOMITING. Obtain immediate medical attention.