

Technical Datasheet

FLAME ALUMINIUM - 650°C



Product Code: 05851 Enamels

DESCRIPTION

Silicone and alkyd based resin pigmented with aluminum reflective particles.
Metallic enamel coating resistant to high temperatures.

USE: INTERIOR-EXTERIOR

Indicated for the protection of metal elements such as carbon steel and aluminium for long periods of time at temperatures up to 650°C. It is also indicated for the protection of metal surfaces with aluminum that are subjected to temperatures below 650°C.

Product is highly resistant to moisture and aggressive gases, hence ideal for the protection of steel structures in marine and industrial atmospheres, provided that after its application, it goes through a forced drying cycle at temperatures of 200°C for 30 minutes to cure it. In practice on large or permanent installations the, the curing of the paint can be carried out under operation. Important to maintain a slow and steady temperature increase reaching the 650°C under controlled conditions to avoid blisters forming.

PROPERTIES

- Easy application and good flow and leveling properties.
- Excellent weather resistance.
- Good adhesion on steel.
- Good moisture resistance.
- Resists temperatures of up to 650°C dry heat, in continuous operation.

Finish: Metallic gloss

Colour: Aluminium

Viscosity: Min. 50" S/FR1002

Density: 1,05 ± 0,05 gr/cc S/FR1001

Drying: Touch dry in 30 minutes

Minimum repaint time: 24 hours

Diluent: D-17 Thinner

Performance: 15 m²/l (for 20 microns)

Volume solids: 30% Theoretical

Flash Point: Inflammable to 29°C

Relative humidity: Maximum 80%

VOC Content: Max. 500 g/l

05851 FLAME.



Format: 4 L

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SURFACE PREPARATION

The result of this paint depends on the degree of surface preparation.

Abrasive blasting to Sa2½ grade ISO 8501-1 is indispensable. The roughness profile should be between 25-50 µ. as per ISO 8503.

Remove abrasive residues and surface dust and prime with **Ziamar ET 2/C Zinc Silicate**, Prod.code 25.700

(Zinc silicate has no adhesion on unblasted surfaces).

PREPAINTED SURFACES: On painted surfaces in good condition, apply the product directly after sanding. In the event that the surface is in poor condition, remove paint and oxidized areas by abrasive blasting up to Sa2½ ISO 8501-1 grade and proceed as on untreated surface.

APPLICATION TIPS

Stir paint thoroughly until completely homogenized.

During application, it should be stirred from time to time to avoid sedimentation of aluminum particles.

Aluminum particles may stain with rubbing, so this product is not advisable for transit areas.

ENVIRONMENTAL CONDITIONS. During the application and the curing process the temperature must be maintained between 5°C and 35°C. The temperature of the substrate must be at least 3°C above the dew point. Avoid condensations.

Do not apply with risk of rain or strong wind.

APPLICATION METHOD.

- BRUSH: At supplied viscosity, ensuring that all surfaces receive the same layer thickness, apply in long well stretched brushstrokes, and pay special attention to ensuring that the entire surface is protected (angles, joints, etc.).

- PNEUMATIC SPRAYER:

Tip Size: 1,0 - 1,4 mm.

Air pressure: 3 - 4 Kg/cm²

Work pressure : 0,7 - 1,4 kg/cm²

- AIRLESS SPRAYER

Tip Size: 0,38 - 0,48 mm.

Work Pressure: 140 - 170 Kg/cm².

The exact determination of the dilution percentage will depend on the temperature, gun pressure, type of nozzle, etc.

CLEANING. Clean work tools with **D-17 solvent (Prod.Code 50.004)**.

SAFETY & ENVIRONMENT

As this is a solvent based product, it must be applied with good air circulation and with the necessary protection measures. Avoid sources of ignition. Minimize product waste by estimating the correct amount needed, taking into account the m², porosity and texture of the surface. Store any excess material (unmixed) in a ventilated and dry place. The container must be clean and of adequate size for the amount of product left over. Close containers carefully and keep upright to avoid spills. Preserve the containers of frost, high temperatures and direct exposure to the sun. Keep any unused product for later use to reduce environmental effects. Do not eat, drink or smoke during the preparation and application of the product. Surface preparation and application operations must be carried out with the corresponding safety measures. For more information, consult the Safety Data Sheet. In case of contact with eyes wash with clean and abundant water. Keep out of the reach of children. Do not discharge into drains or the environment. Dispose of at an authorized waste collection point. Consult your local city council about the correct recycling of both the container and waste and leftovers of paint according to law and principles of environmental respect.

In accordance with the terms of directives 1999/13 / CE and 2004/42 / CE, this product can only be used indoors in registered or authorized facilities.