

KINGDOM ALUMINIUM

Product Description:

Kingdom Aluminium is a one-component, styrene-modified, oxidatively drying alkyd coating. It is heat resistant up to 250°C and can be used as an exterior aluminum finish, usually within an alkyd system. It can be used as a primer, mid-coat, or finish coat in atmospheric environments. It is suitable for properly prepared carbon steel and aluminum substrates.

Features:

It offers excellent coverage and hiding, exceptional durability, and is suitable for both exterior and interior protection.

Recommended Use & Substrate:

It is recommended for use as a protective top coat for both interior and exterior applications on steel surfaces. It has excellent light and heat-reflecting properties, making it ideal for use on exhaust pipes, process piping, and engine parts.

Product Data:

Finish	: Glossy (Aluminum Sheen)
Color	: Aluminum Silver
Specific Gravity	: 0.95 ± 0.03 @ temperature of 25°C, ASTM D - 1475
Viscosity	: 55 ± 5KU @ temperature of 25°C, ASTM D - 562
Solids by volume	: 45 ± 2 volume%, ASTM D – 2697
Opacity	: Above 96% at W.F.T 150μ
Spreading Rate	: 15 (m ² /l) theoretically on 25μ D.F.T each coat (Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.)
Flash point	: 36°C

Surface Preparation:

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination. The surface shall be hand or machine abraded with non-metallic abrasives or bonded fiber machine, hand abrasive pads to impart a scratch pattern to the surface and to remove all polish from the surface. Clean dry and undamaged primer.

Remarks

- Stir well before use.
- To avoid settling continuous stirring is required during application.
- Handle with Care.

Recommended Coating System:

Spray: Use air or airless spray.

Brush: Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

Roller: May be used for small area. Not recommended for first primer coat. Care must be taken to achieve the specified dry film thickness.

Guiding data for airless spray

- Nozzle tip (inch/1000): 15-19
- Pressure at nozzle (minimum) 150bar/2100 psi

Application Procedure:

- Apply a suitable anti-corrosive primer and let it fully dry.
- Apply Kingdom Aluminum.

Recommended Film Thickness per Coat:

Dry film thickness: 20-30 microns (μm)

Wet film thickness: 45– 65 microns (μm)

Film thickness will vary and is calculated as average.

Thinner:

Kingdom Thinner

Product mixing ratio (by volume):

Single pack

Drying time:

Surface (touch) dry: 30 min (Depending on the thickness & temperature)

Full dry: 10 Hrs. @ 25°C (Depending on the thickness & temperature)

Dry to overcoat minimum: 12 Hrs. minimum @ 25°C.

*Drying and curing times are determined under controlled temperatures and relative humidity below 85%, and at average of the range for the product.

*Surface (touch dry): The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

*Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprint or other physical damage.

*Dry to over coat, minimum: The shortest time allowed before the next coat can be applied.

Shelf life & Storage:

Shelf life: 2 years @ 25°C. **Storage:** The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Health and safety precautions:

Ensure good ventilation during and after application. Do not inhale vapors/spray. In case of contact with skin or eyes, rinse immediately with plenty of water. Avoid eating drinking or smoking during application. Keep out of reach by children. For environmental safety: please donate the leftover paint and packaging to your local authorized institution for usage or recycling purpose. Note: Wastes and empty containers should be disposed of in accordance with local regulations made under the control of Pollution Act and the Environmental Protection Act.”

Disclaimer:

The information in this data sheet is given according to the best of our knowledge on laboratory testing and practical experience. Kingdom Paints will not be held responsible for results arising out when applied against specified. We reserve the right to change the given without notice. For more information, visit www.kingdompaints.sa & Users should always consult Kingdom paints factory for specific guidance on the general suitability of this product for their needs and specific application practices.



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Please note that this data sheet supersedes the previous version.

