

KINGDOM ENAMEL FLAT

Product Description:

An alkyd based flat enamel is designed to provide good dry hide appearance when applied to properly prepared surfaces. It resists spattering and exhibits good touch-up characteristics. The flat sheen hides surface imperfections

Features:

It has excellent leveling and high opacity to provide a smooth and attractive flat finish on surfaces.

Recommended use & Substrate:

It is recommended to apply on suitably primed concrete, plaster walls, wood, steel, and gypsum surfaces where attractive flat finish is required.

Product Data:

Finish	: Flat
Gloss	: 0-5% at an angle of 60°, ASTM D - 523
Color	: Available in white and as per color card
Specific Gravity	: 1.50 ± 0.05 @ temperature of 25°C, ASTM D - 1475
Viscosity	: 110 ± 5KU @ temperature of 25°C, ASTM D - 562
Solids by volume	: 45 ± 2 volume%, ASTM D – 5201
Hiding	: Above 95% at W.F.T 100μ
Spreading Rate	: 12.8 (m ² /l) theoretically on 35μ D.F.T each coat (Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.)
Sagging	: 150 μ, ASTM-D4400
Water resistance	: Pass 7 days, ASTM D –870
Scratch resistance	: Pass, ASTM D-5178
Adhesion	: Pass, ASTM D – 3359
Flash point	: 38°C

Surface preparation:

All new surfaces must be cured at least for 30 days prior to application of the primer. The substrate must be sound, clean, dry and free from dust, oil, grease, laitance etc. All traces of form release agents/curing agents must be removed. A light sanding with suitable abrasive material is recommended before application. Any resulting dust/loose particles must be removed

Recommended coating system:

For masonry surfaces

Primer	: One coat of Kingdom Primer Sealer .
Putty	: One or two coats of Kingdom Acrylic Putty .
Topcoat	: Two coats of Kingdom Enamel Flat .



For steel surfaces

Primer : One coat of **Kingdom Alkyd Primer**.

Topcoat : Two coats of **Kingdom Enamel Flat**.

Application data:**Application conditions**

- Surface temperature must be above 5°C during application and curing.
- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 3°C above the dew point.
- Provide adequate ventilation during application and drying.
- A suitable quantity of recommended thinner can be added to get applicable viscosity.
- Do not apply on wet and moistened surfaces until completely dry.
- Do not apply the next coat unless the previous one is fully dry. Minimum recoating interval time should be followed.

Relative Humidity

- Relative humidity must be below 75% during drying and curing.

Remarks

- Stir well before use.
- The practical consumption factor may vary depending on application conditions, equipment and workmanship.
- Two coats of the topcoat may be necessary to obtain full hiding power.

The product can be applied by

- Roller: Soft and smooth roller Recommended.
- Spray: Use airless spray or conventional spray.
- Brush: Recommended to paint corners and edges.

Guiding data for airless spray

- Nozzle tip 0.015–0.019"
- Spray angle degrees 40-60°
- Pressure at nozzle 140 - 190 kg/cm² (2100 psi)

Guiding data for air spray

- Nozzle size: 1.5-1.8 mm

Cleaning of painting tools

- Kingdom thinner 801

Recommended film thickness per coat:

Dry film thickness : 35– 45 microns (μm)

Wet film thickness : 77– 100 microns (μm)

Film thickness will vary and is calculated as average.

Thinner:

Recommended thinner is **Kingdom Thinner 801**



Thinning (Dilution) ratio:

Airless spray : (0 - 10) % by volume

Air spray : (10 - 20) % by volume

Roller and brush : (10 -15) % by volume

All above depends on the weather and application conditions.

Drying time:

Surface (touch) dry : 3 Hrs. @25°C

Full Dry : 18 Hrs. @ 25°C

Dry to overcoat minimum : 24 Hrs. minimum @ 25°C.

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 and 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.

