

Technical Data Sheet

Universal Waterborne Enamel

Description

Universal Waterborne Enamel is a high-performance, water-based enamel paint that combines the hardness, gloss, and flow of traditional alkyd enamels with the advantages of a water-solvent system. It provides a durable, non-yellowing, and low-odor finish ideal for interior and exterior use on properly primed metal, wood, and previously coated surfaces.

Features & Benefits

- Alkyd-like hardness and gloss with excellent flow and leveling.
 - Non-yellowing film with superior color and gloss retention.
 - Low VOC formulation and easy clean-up with water.
 - Excellent washability, stain, and abrasion resistance.
 - Fast drying and early block resistance.
 - Suitable for high-traffic and frequently cleaned areas.
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Uses

- Metal, wood, and MDF surfaces in homes, offices, hospitals, and commercial spaces.
 - Doors, trims, furniture, cabinets, windows, and metallic structures.
 - Ideal for both interior and exterior applications requiring superior washability and gloss retention.
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Technical Data

Property	Typical Value
Binder Type	Pure Acrylic
Finish	Gloss / Semi-Gloss / Satin
Density	1.30-1.45 kg/L
Solids by Volume	45-50%
VOC	<50 g/L
Drying Time @25°C & 50% RH	Touch dry: 30-60 min · Recoat: 4-6 h · Full Cure: 7 days

Coverage	10–12 m ² /L per coat @ 35–40 µm
Thinning	Clean water up to 15-20% (roller/brush), 25-35% (spray)
Application Temperature	+10°C to +35°C

Surface Preparation

Ensure all surfaces are clean, dry, and free from grease, rust, or loose material.

- New metal: Prime with Universal Super Metal Primer or Universal Epoxy Metal Primer.
 - Galvanized or aluminum: Lightly abrade, degrease, and prime with Universal Zinc Phosphate Metal Primer – Fast Dry.
 - Wood and MDF: Sand smooth; apply Universal Primer Undercoat – Series 7000.
 - Previously painted surfaces: Remove loose paint, sand glossy areas, clean thoroughly, and spot-prime exposed areas.
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Application

- Tools: Brush, roller, or airless spray.
 - Film Thickness: Apply uniform coats to achieve full coverage.
 - Recoating: Ensure previous coat is dry and lightly sand if necessary.
 - Cleanup: Clean tools immediately after use with clean water.
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Packaging

1 US Quart (0.946 L), 1 US Gallon (3.785 L), and 5 US Gallons (18.925 L).

Storage & Safety

Store tightly closed in a cool, dry, and well-ventilated area between +5°C and +35°C. Protect from frost and direct sunlight. Shelf life: 24 months in unopened containers.

Avoid contact with skin and eyes; wear protective gloves and goggles during application. Ensure adequate ventilation during use. Non-flammable, water-based product.