

Technical Data Sheet

Universal Enamel Varnish

Description

Universal Yacht Varnish is a high-performance solvent-based marine spar varnish based on alkyd resins modified with urethane polymers. This formulation combines the warm appearance and workability of traditional alkyd varnishes with the enhanced durability, flexibility, and chemical resistance of urethane modification. It provides a rich, deep gloss finish that withstands harsh marine and exterior exposures above the waterline.

Features & Benefits

- Urethane modification for excellent hardness and flexibility
 - Long-term UV and weather resistance with durable gloss retention
 - Deep amber tone enriches natural wood grain
 - Superior flow and leveling for professional results
 - Resistant to mild chemicals, salt spray, and moisture
 - Recommended for both new wood and maintenance recoating
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Uses

- Exterior and interior woodwork on boats and yachts above the waterline
 - Brightwork such as masts, rails, handrails, trim, doors, and furniture
 - Ideal for marine, coastal, and architectural wood requiring superior UV and moisture protection
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Technical Data

| Property | Typical Value |
|------------------|------------------------------------|
| Binder Type | Alkyd / Urethane Modified Resin |
| Finish | Gloss (Satin available on request) |
| Color | Clear, light amber |
| Density | 0.92-0.96 kg/L |
| Solids by Volume | 48-52% |

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|----------------------------|--|
| Drying Time @25°C & 50% RH | Touch dry: 4-6 h · Recoat: 12-16 h · Full Cure: 72 h |
| Flash Point | 35 °C |
| Coverage | 12-16 m ² /L per coat @ 25-30 µm |
| Thinning | White Spirit 15-20% (roller/brush), 20-25% (spray) |
| Application Temperature | +10°C to +35°C |

Surface Preparation

All surfaces must be clean, dry, sound, and free from grease, oil, wax, and dust.

- **New wood:** Sand to P180–220, remove dust, and ensure moisture content below 15 %.
 - **Oily woods (teak, iroko):** Wipe with mineral spirits to remove surface oils.
 - **Previously varnished surfaces:** Remove loose coatings and sand to a uniform matte before recoating.
 - Not recommended for continuously immersed surfaces (below the waterline).
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Application

- **Tools:** Brush, roller, or spray (natural bristle preferred for solvent systems).
 - **Thinning:** White Spirit 15-20% (roller/brush), 20-25% (spray)
 - **Recoat Interval:** 16 hours minimum between coats at 25 °C; sand lightly with P220–320 when dry-to-sand.
 - Avoid applying in direct sunlight or when humidity exceeds 85 %.
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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 in tightly closed containers between +5 °C and +35 °C. Keep away from heat, sparks, and open flame.

Shelf life: 24 months in unopened containers stored under recommended conditions.