

Marine 1-VARNISH

Technical Specifications
 Date of issue: 19/02/2024
 Version Number: 2th

2k polyurethane marine varnish



The MARINE 1-VARNISH is a high quality 2-component varnish of extremely high endurance in extreme weather conditions, ideal for all types of boats. Contains state-of-the-art UV filters and high-strength resins that do not turn yellow over time. It is recommended for outdoor use due to its durability, but can be applied just as effectively on interior surfaces. It spreads wonderfully even with a roller or brush in contrast to most two-component varnishes and provides a smooth, uniform, and elegant surface. It is not an anti-fouling product and is applied over the waterline of the boat.

Fields of application

It can be applied to almost all types of surfaces on a boat, such as wood, metal, polyester, and carbon, providing the solution for coating and protecting handrails, seats, doors, windows, steering wheels, etc. It is characterized by high hardness, elasticity and resistance to scratches, shocks, solar radiation, chemicals, severe weather, sea salt and moisture. Also suitable for indoor use.

Surface preparation

The surfaces must be completely dry, clean, and free from dust, oil, grease, loose materials, flaking paints or varnishes and sanded with a suitable abrasive. Application to bamboo requires very fine sanding with Freecut Grit 240 abrasive paper.

Thinning

Up to 1% with polyurethane thinner 4099, P2 or P3, depending on temperature. For industrial use only and spray-gun or airless spray application, thin 20-30% with VERNILAC's 4099, P2 or P3 thinner, depending on temperature.

Physical / Technical Characteristics

GLOSS

Viscosity	60 ± 5 CF 4 25°C
Density	0,98 ± 0,02 kg/lit (ISO 2811.01,20°C)
Gloss level	100 @60 °C

SATIN

Viscosity	84 ± 5 CF 4 25°C
Density	1,00 ± 0,02 kg/lit (ISO 2811.01,20°C)
Gloss level	50 ± 5 @60 °C

MATT

Viscosity	41 ± 5 DIN No.6 25°C
Density	1,02 ± 0,02 kg/lit (ISO 2811.01,20°C)
Gloss level	10 ± 3 @60 °C

Mixing

2 parts A' component with 1 part B' component by volume.

Workability of mixture – pot life

3-4 hours at a temperature of 30°C. At higher temperatures the workability of the mixture decreases.

Application

Before application, it is always necessary to stir the two components separately. Then, mix the two components of MARINE 1-VARNISH and stir well until the mixture is completely homogeneous. After stirring and mixing is complete, apply by brush or roller one coat of MARINE 1-VARNISH diluted up to 1% with polyurethane thinner 4099, P2 or P3. For industrial use and application via spray-gun or airless, thin 20%-30% with 4099, P2 or P3. After 6 hours, apply a second coat of MARINE 1-VARNISH diluted 20-30%. Time from hand to hand at least 6 hours. The surface is ready for use after 24 hours, while it has fully acquired its mechanical and chemical resistance in 7 days.

Drying - Repainting

Drying at a temperature of 25°C: Touch-dry: 45 minutes. Recoat: after 6 hours and no later than 24 hours. Complete hardening of the varnish is achieved in 7 days. In low temperatures or conditions of increased humidity, drying times are extended. Avoid application at temperatures below 5°C and above 35°C.



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Consumption

Approximately 12-14 m²/L, per layer, on properly prepared surfaces, for a dry film thickness of 50-90µm.

Gloss level

Available in gloss, satin and matt.

Storage

The factory-sealed package is kept for at least 6 months in a shaded and cool environment, at temperatures ranging from 5°C to 35°C. After application, tightly seal the container and store in suitable conditions.

Cleaning tools

Immediately after use, clean tools with ACETONE or VERNILAC's polyurethane solvent 4099. Do not pour washing liquids into water courses.

Volatile organic compounds (VOC)

The maximum EU limit value (Directive 2004/42/CE) for this product [Category A/j "Two-pack reactive performance coatings for specific end use such as floors", Type SB] is 500 g/l (2010). This product contains maximum 499 g/l VOC (ready for use).

Packaging

GLOSS	0,5 lt	2 lt	6 lt
SATIN	0,5 lt	2 lt	6 lt
MATT	0,5 lt	2 lt	6 lt
HARDENER	0,25 lt	1 lt	3 lt

Safety information

Read the label before use. For detailed instructions - precautions, consult the Product Safety Data Sheet. Poison Information Centre: (+30) 210 77 93 777.

THE PRODUCT IS INTENDED FOR PROFESSIONAL USE ONLY



All the information provided in this technical data sheet is the result of the scientific knowledge of the company's personnel and the practical experience in product application. This document doesn't express or imply a guarantee as the company cannot control and bears no responsibility for the conditions and the manner of application, the adjustment and the modification of the product when used by the customer. The customer must confirm by his own means that the product is suitable for the intended use. The current version of technical data sheet withdraws all previous versions for this product.

