

# Epifanes Clear Varnish

One-comp. classic high gloss yacht varnish + extra UV filter



## PRODUCT DESCRIPTION

Extreme high gloss, unique flow characteristics and high build capacity. The UV filter protects the wood for discoloration. Its flexibility prevents cracking on working wood. This varnish is famous for its high gloss retention, long lasting properties, even in tropical climates.

**Field of use:** New work on bare solid wood (mahogany, meranti, Oregon pine) and plywood both for inside and outside above the waterline. Maintenance of intact existing (one- and two-component) varnishes regardless of brand. Not suited for direct use on epoxy resin.

## PRODUCT INFORMATION

<b>Type</b>	Oxidative drying
<b>Base</b>	Phenolic resin / Alkyd resin / Tung Oil
<b>Gloss</b>	High gloss
<b>Colour</b>	Transparent amber
<b>Density at 20°C.</b>	0,9138 g/cm <sup>3</sup>
<b>Viscosity</b>	50 seconds ISO-cup 4 mm
<b>Solids Contents</b>	52 ± 2 vol. %
<b>VOC-level</b>	370 g/l
<b>Packing</b>	250ml. - 500ml. - 1000ml. - 5000ml.
<b>Shelf life</b>	3 years in closed original container if stored in a location with temperatures between 5 - 30°C
<b>Rec. filmthickness</b>	60 - 70 µm wet = 30 - 35 µm dry
<b>Thinner brush</b>	Epifanes Brushthinner for Paint & Varnish or a good quality white spirit
<b>Thinner spray</b>	Epifanes Spraythinner for Paint & Varnish or denaturated alcohol
<b>Thinning in general</b>	Thinning ratio depends on product temperature and working area. Avoid overthinning. For thinning ratios, refer to the Epifanes varnish systems.

Drying times	10°C.	15°C.	20°C.	25°C.
Dust dry	5 hours	4 hours	3 hours	2 hours
Sandable	40 hours	30 hours	24 hours	20 hours
Recoatable	40 hours	30 hours	24 hours	20 hours

The above mentioned drying times are indicative at 65% RAH and 30 µm dry filmthickness. Drying also depends on ventilation and applied wet filmthickness. A higher wetfilmthickness and/or poor ventilation results in longer drying times. Especially horizontal parts may take longer to dry due to high wetfilmthickness. Allow each varnish coat sufficient time to dry. Do not apply wet-on-wet!

**Substrate** Bare wood : degreased and sanded P220.  
For maximal impregnation into the wood grain, thin first coat 40-50% .

Maintenance of varnish: degreased and sanded P240.  
For a good grip, thin first coat 10% .

## Technical datasheet EN-001

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### APPLICATION

Conditions during application  
Temperature  
Relative air humidity

minimal 5°C. - maximal 30°C.  
minimal 50% - maximal 85%

Best results are achieved by longhaired soft brush or by air spray. Because of the required wet film thickness application by roller is not advised. Evenly distribute the varnish over the surface and tip off along the wood grain. Avoid retipping. Do not apply wet-on-wet. Do not apply excessive wet film thickness to avoid the formation of curtains and drying problems. Avoid varnishing in direct sunlight or too much wind. A rapid loss of solvents will occur under these conditions and decrease the flowing ability. Avoid large difference in temperature of the product, surface to be varnished and working area. In case the product "pulls" and is difficult to apply, 10% Epifanes Brushthinner may be added. To retrieve the original colour of the wood, Epifanes Mahogany Stain or Epifanes Teak Stain may be added to the varnish up to 10%. After drying, lightly sand the surface with P400 or Scotch Brite. Always sand by hand along the wood grain.

#### Guidelines for spray application:

Thinning volume	Nozzle	Pressure	Visco DIN-cup 4 mm
15-20%	1.2 mm - 1.5 mm	2-3 Bar	20-24 sec.

### SYSTEM BUILD UP

	Step 1	Step 2	Step 3	Step 4
Product	EPIFANES Clear Varnish	EPIFANES Clear Varnish	EPIFANES Clear Varnish	EPIFANES Clear Varnish
Numb. of coats	1	1	1	4 of more
Thinner	EPIFANES Brushthinner PV	EPIFANES Brushthinner PV	EPIFANES Brushthinner PV	EPIFANES Brushthinner PV
Thinning ratio	50%	25%	15%	0-5%
Drying time 20°C.	24 hours	24 hours	24 hours	24 hours
Sanding grit	Dry P220 - sand by hand	Dry P220 - sand by hand	Dry P280 - sand by hand	Wet P400 / Scotch Brite
Remarks	First penetrating varnish coat. For full varnish penetration inside the wood fibres, apply this first coat heavily thinned.	Second penetration varnish coat. Apply this second coat approx. 25% thinned Sand by hand along the wood grain.	Third penetration varnish coat. Apply this second coat approx. 15% thinned Sand by hand along the wood grain.	At least 4 finishing coats are required. In warmer climates with high UV-levels, at least 6 or more full bodied finishing coats are required for sufficient protection.

#### Theoretical coverage Practicle coverage

15m<sup>2</sup> per liter @ 35 µm dry filmthickness  
Dependent on condition of substrate, loss of material due to factors such as application technique, shape of object, circumstances during application.

#### Recoatibility with other Epifanes varnishes

Epifanes Woodfinish Gloss	High gloss alternative
Epifanes Woodfinish Matte	Matt finish for interior / exterior use
Epifanes Rubbed Effect Varnish	Satin finish for interior use
Epifanes Aqua Marine Interior Varnish	Water based satin finish for interior use
Epifanes Rapidcoat / Rapidclear	Semi gloss alternative

#### Safety

The user of this product should obey all national laws and legislation concerning health, safety and environmental hazard. For more information on health and safety, refer to the Material Safety Data Sheet of this product.

Although the facts and suggestions in this product information sheet are based on our own research and field experiences and are believed reliable, we cannot simply be held responsible for performance or results obtained through the use of this product. Ineffectiveness or other unintended consequences may result, because of such factors as weather, conditions, presence or other materials or the manner of preparation, use or application all of which are beyond W. Heeren & Zoon's control. All such risks are assumed by user.

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**EPIFANES**  
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