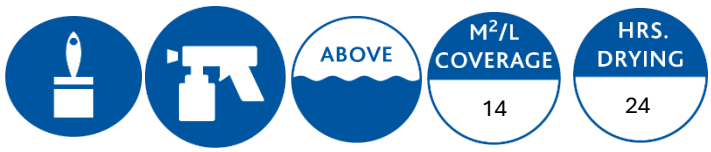
Epifanes Clear Varnish

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

Type	Oxidative drying
Base	Phenolic resin / Alkyd resin / Tung Oil
Gloss	High Gloss
Colour	Transparent amber
Density @ 20°C.	914 gr. / dm^3
Viscosity @ 20°C.	50 seconds IS0-cup 4 mm
Solids contents	52 ± 2 vol. %
VOS-level	370 gram/liter
Packing	250ml. - 500ml. - 1000ml. - 5000ml.
Shelf life	In closed original container if stored in a location with temperatures between 5 - 30°C 3 years
Rec. filmthickness	60 - 70 µm wet = 30 -35 µm dry
Thinner brush	Epifanes Brushthinner for Paint & Varnish or a good quality white spirit.
Thinner Spray	Epifanes Spraythinner for Paint & Varnish or denaturated alcohol
Thinning in general	Thinning ratio depends on product temperature and working area. Avoid overthinning. For thinning ratios, refer to the Epifanes varnish systems.
Tools	Longhaired soft bristle brush or by conventional air spray

Drying times	10°C.	15°C.	20°C.	25°C.
Dustdry	8 hours	6 hours	4 hours	2 - 3 hours
Sandable	48 hours	36 hours	24 hours	20 hours
Recoatable	48 hours	36 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!

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EPIFANES® Yacht Coatings

Substrate

Bare wood: Degreased with Epifanes Spraythinner for Paint & Varnish and sanded P220 dry
For full impregnation into the woodfibres, thin 1st. varnish coat 25 – 50%
Existing varnish: Degreased with Epifanes Spraythinner for Paint & Varnish and sanded P220 dry
For a good grip on the varnish in place, thin 1st. varnish coat 10 – 15%

APPLICATION / WORKING ENVIRONMENT

Conditions during application	**Temperature**	**minimal 5°C. - maximal 30°C.**
	Relative air humidity	**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 varnish and working area. In case the product "pulls" and is difficult to apply, 10% Epifanes Brushthinner for Paint & Varnish 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, always 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	Viscosity DIN-cup 4 mm
15 - 20%	1.2 mm – 1.5 mm	2 -3 Bar	20 – 24 seconds

System build-up

	Step 1	Step 2	Step 3	Step 4
Product	EPIFANES Clear Varnish	EPIFANES Clear Varnish	EPIFANES Clear Varnish	EPIFANES Clear Varnish
Number of coats	1	1	1	At least 4 full coats
Thinning ratio	25 - 50%	15 - 25%	10 – 15%	0 – 5%
Drying time @ 20°C.	24 hours	24 hours	24 hours	24 hours
Sanding grit	P220 dry Sand by hand along the wood grain.	P220 dry Sand by hand along the wood grain.	P-320 dry Sand by hand along the wood grain.	P-400 wet or use Scotch Brite
Remarks	1st. penetrating varnish coat. For full varnish penetration inside the wood fibres, apply this coat heavily thinned	2nd. penetration varnish coat.	3rd. penetration varnish coat.	At least 4 finishing coats are required. In warmer climates with high UV at least 6 or more full bodied finishing coats are required for sufficient UV-protection.

Coverage Theoretical
Coverage practical
$15m^2$ 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.

Recoatability with other Epifanes varnishes
Epifanes Rapidclear - Epifanes Woodfinish Gloss - Epifanes Rubbed Effect Varnish
Epifanes Rapidcoat - Epifanes Woodfinish Matte - Epifanes Aqua Marine Int. Varnish

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

Allthough 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 responsil performance or results obtained through the use of this product. Ineffectiveness or other unintended consequences may result, because of such factors as weather, conditions, prese 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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