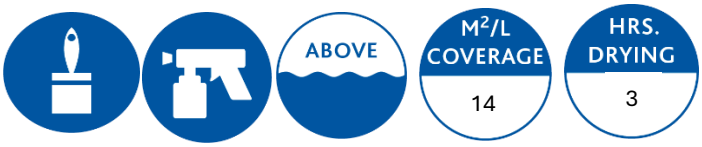
Epifanes PP Varnish Extra

Fast two component build up varnish with UV filter





PRODUCT DESCRIPTION

A quick drying high gloss build up varnish. The good scratch resistance makes it a very suitable varnish in a new system. It gives a good protection against water, household chemicals and alcohol. The varnish can be applied on every type of marine wood including teak and it has a great elasticity. It is therefore suitable for masts and other working wooden parts.
Field of use: The professional, fast drying base varnish can be applied on every wooden surface above the waterline. Due to the limited UV protection, this product will show some loss of gloss and yellowing when exposed to UV.
Note! For exterior use, it is recommended to finish the system with either at least 3 coats Epifanes Poly-urethane Gloss/Satin, Epifanes PU Speedcoat clear Glos/Satin or Epifanes Clear Varnish.

PRODUCT INFORMATION

Type	Chemical drying
Base	Polyurethane/Alkyd resin and isocyanate
Gloss	High Gloss
Colour	Fully transparent
Density @ 20°C.	1034 gr. / dm^3
Viscosity @ 20°C.	40 seconds IS0-cup 4 mm
Solids contents	50 ± 2 vol. %
VOS-level	538 gram/liter
Packing	1000ml. Component A + 1000ml. Component B = 2000ml. 5000ml. Component A + 5000ml. Component B. = 10ltr.
Shelf life	In closed original container if stored in a location with temperatures between 5 - 30°C Base component A : 3 years – Curing component B : 1 year
Mixing ratio by weight	1 part base component A + 1 part curing component B
Induction time @ 20°C.	5 -10 minutes
Rec. filmthickness	60 - 70 µm wet = 30 - 35 µm dry
Thinner brush	Epifanes PP Varnish Extra Thinner (fast) / Epifanes PU Brush Thinner (slow)
Thinner spray	Epifanes PP Varnish Extra Thinner (Fast) / Epifanes PU Spray Thinner (Slow)
Thinning in general	Thinning ratio depends on product temperature and working area. Avoid overthinning.
Tools	Longhaired soft bristle brush or by conventional air spray

Drying times	12°C.	15°C.	20°C.	25°C.
Dustdry	1.5 hours	1 hour	30 minutes	20 minutes
Recoatable with itself	4 - 5 hours	3-4 hours	2–3 hours	2 hours
Sandable	36 hours	30 hours	24 hours	20 hours
Potlife after mixing	3 hours	2 hours	1.5 hours	1 hour

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EPIFANES® Yacht Coatings

The above mentioned drying times are indicative at 65% RAH and 35 µm dry filmthickness. Drying also depends on the amount of ventilation and applied wet filmthickness. Higher wet filmthickness and/or lpoor ventilation results in longer drying times. Especially horizontal parts may take longer to dry due to high wet filmthickness. Allow each varnish coat sufficient time to dry.

Substrate	**Bare wood:** Degreased with Epifanes Spraythinner for Paint & Varnish and sanded P180 - P220. For full impregnation into the woodfibres, thin 1st. varnish coat on teak 25%. On other wood types thin 30 -40%.

APPLICATION / WORKING ENVIRONMENT

Conditions during application	**Temperature**	**minimal 12°C. - maximal 30°C.**
	Relative air humidity	**minimal 50% - maximal 70%**

Best results are achieved by using a longhaired soft brush or by roller. Evenly distribute the varnish on the surface and tip off along the wood grain. Avoid retipping. Do not apply wet-on-wet. Do not apply excessive wet films to avoid the formation of curtains and drying problems. Avoid varnishing in direct sunlight or much wind. A rapid loss of solvents will occur under these conditions and will decrease the flow. Avoid large differences in temperature of the product, surface to be varnish and working area. In case the product "pulls" and is difficult to apply, 10% Epifanes PU Brushthinner or PU Slow Reducer may be added. To retrieve the original colour of the wood, up to 10% Epifanes Mahogany Stain or Epifanes Teak Stain may be added to the varnish. After drying, lightly sand the surface with P400 or use Scotch Brite. Always sand by hand along the wood grain.

Guidelines for air spray application:

Thinning volume	Nozzle RP	Pressure	Viscisity DIN cup 4 mm
10 – 20%	1.2 mm – 1.6 mm	2 – 2.5 Bar	18 – 20 seconds

SYSTEM BUILD UP

	Step 1	Step 2
Product	**EPIFANES PP Varnish Extra**	**EPIFANES PP Varnish Extra**
Number of coats	**1**	**At least 3, preferably more. More coats will further fill the wood grain and will deepen the lustre.**
Thinning ratio	**20 - 25%**	**0 - 10 %**
Drying time @ 20°C.	**2 - 3 hours**	**2 - 3 hours**
Sanding grit	**P220 dry Sand by hand along the wood grain.**	**No sanding between coats within 48 hours. After 48 hours always sand with P320.**
Remarks	**1st. penetrating varnish coat. For full varnish penetration into the wood fibers, apply this first coat thinned.**	**PP Varnish Extra may be thinned with Epifanes PU Brushthinner. This slow evaporating thinner will allow the PP Varnish Extra to flow better.**

UV Protection outdoor	Due to the limited UV protection this product will show some loss of gloss and yellowing when exposed to UV. For exterior use, it is recommended to finish the system with either at least 3 coats Epifanes Poly-urethane Gloss/Satin, Epifanes PU Speedcoat or Epifanes Clear Varnish. These products contain high end UV filters protecting the system against loss of gloss.
Coverage theoretical	14m^2 per liter.@ 35 µm dry filmthickness
Coverage practical	Dependent on condition of substrate, loss of material due to factors such as application technique, shape of object, circumstances during application.
Recoatability after sanding	Epifanes Clear Varnish – Epifanes Woodfinish Gloss – Epifanes Rubbed Effect varnish Epifanes Rapidclear - Epifanes Woodfinish Matte – Epifanes PU Speedcoat Clear Gloss/Satin
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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