

Epifanes PP Varnish Extra

Two component build up varnish with UV filter



PRODUCT DESCRIPTION

Epifanes PP Varnish extra is a quick drying high gloss 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 moving wooden parts of the boat.

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. 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.

PRODUCT INFORMATION

Type	Chemical drying
Base	Polyurethane/Alkyd resin and isocyanate
Gloss	High gloss
Colour	Transparent
Density at 20°C.	1,034 g/cm ³
Viscosity	40 seconds ISO-cup 4 mm
Solids Contents	50 ± 2 vol. %
VOC-level	538 g/l
Packing	1000ml. Component A + 1000ml. Component B = 2000ml. 5000ml. Component A + 5000ml. Component B. = 10 ltr.
Shelf life	In closed, unopened container stored in a dry room at temperatures between 5 - 30°C Component A 3 years after production date Component B 1 year after production date
Rec. filmthickness	60 - 70 µm wet = 30 - 35 µm dry
Induction time 20°C.	5-10 minutes
Thinner brush	Epifanes PP Varnish Extra Thinner (Fast) / Epifanes Poly-urethane Brush Thinner (Slow)
Thinner spray	Epifanes PP Varnish Extra Thinner
Thinning in general	Thinning ratio depends on product temperature and working area. Avoid overthinning.

Drying times	15°C.	20°C.	25°C.
Dust dry	1 hour	30 minutes	25 minutes
Recoatable	3-4 hours	2-3 hours	2 hours
Sandable	30 hours	24 hours	20 hours
Potlife after mixing	2 hours	1.5 hours	1 hour

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 and sanded P180. Thin the first coat with 25% for teak. All other woods first coat 30-40% thinned.



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APPLICATION

Conditions during application Temperature **minimal 10°C. - maximal 30°C.**
 Relative air humidity **minimal 50% - maximal 75%**

Best results are achieved by using a longhaired soft brush or spray gun. Evenly distribute the varnish on the surface and tip off along the wood grain. Avoid retipping. 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 flowing ability. Avoid large differences in temperature of the product, surface to be varnished and working area. In case the product "pulls" and is difficult to apply, 10% thinner 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	Visco DIN-cup 4 mm
10-25%	1.2 mm - 1.6 mm	2-2.5 Bar	18-20 sec.

SYSTEM BUILD UP

Product	Step 1	Step 2
	EPIFANES PP Varnish extra	EPIFANES PP Varnish extra
Numb. of coats	1	At least 3, but the more, the better
Thinner	EPIFANES Thinner for PP Varnish	Epifanes Thinner for PP Varnish
Thinning ratio	25%	0-10%
Drying time 20°C.	2-3 hours	2-3 hours
Sanding grit	Dry P220	No sanding between coats within 48 hours. After 48 hours always sand with P320
Remarks	First penetrating varnish coat. For full varnish penetration into the wood fibers, apply first coat heavily 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.

**Theoretical coverage
Practicle coverage**

14m² 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 Clear Varnish	1-C High gloss alternative
Epifanes Woodfinish Gloss	1-C High gloss alternative
Epifanes Woodfinish Matte	1-C Matt finish for interior / exterior use
Epifanes Rubbed Effect Varnish	1-C Satin finish for interior use
Epifanes Poly-urethane Clear Satin	2-C Satin finish with UV Filter
Epifanes PU Speedcoat Clear Gloss/Satin	2-C Spray finish for interior / exterior use with UV filter

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, we 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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