

Epifanes Poly-urethane Clear Gloss

Two component PU varnish with high end UV filters



PRODUCT DESCRIPTION

This clear varnish has an extreme high gloss using the latest UV filters. The UV filter protects the wood against discoloration and prevents loss of gloss. Therefore it will withstand all natural elements, even tropical climate conditions. This varnish has a high scratch resistance and excellent water resistance. Can be polished after full cure.

Field of use: Suitable on all existing poly-urethane varnishes regardless of brand. As an UV protection on epoxy surfaces or as a full system on bare, stable wood. (Note: for faster build up, use Epifanes PP Varnish Extra). It can also be used as an extreme high gloss clearcoat on Epifanes Poly-urethane Yacht coatings.

PRODUCT INFORMATION

Type	Chemical drying
Base	Acrylic poly-ol
Gloss	High gloss
Colour	Transparent
Density at 20°C.	1,035 g/cm ³
Viscosity	40 seconds ISO-cup 4 mm
Solids Contents	63 ± 2 vol. %
VOC-level	380 g/l
Packing	500gr. Component A + 250gr. Component B = 750gr. 2 kg. Component A + 1 kg. Component B. = 3 kg
Shelf life	In closed, unopened container stored in a dry room at temperatures between 5 - 25°C Component A 3 years after production date Component B 1 year after production date
Mixing ratio	By weight : 2 parts component A (base) + 1 part component B (catalyst)
Rec. filmthickness	60 - 70 µm wet = 38 - 44 µm dry
Induction time @ 20°C.	10 minutes
Thinner brush	Epifanes Poly-urethane Brush Thinner / Epifanes PU Slow Reducer
Thinner spray	Epifanes Poly-urethane Spray Thinner
Thinning in general	Thinning ratio depends on product temperature and working area. Avoid overthinning.

Drying times	10°C.	15°C.	20°C.	25°C.
Dust dry	4 hours	3 hours	2 hours	1 hour
Sandable/Recoatable	48 hours	30 hours	24 hours	20 hours
Potlife after mixing	5 hours	4 hours	3 hours	2 hours

The above mentioned drying times are indicative at 65% RAH and 35 µm dry filmthickness. Drying also depends on ventilation and applied wet filmthickness. Higher wet filmthickness and/or poor 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. Do not apply wet-on-wet!

Substrate	Bare wood : degreased and sanded P180. Thin first coat with 10-15% Maintenance of varnish: degreased and sanded P240. Thin first coat with 10% Polishing: After full cure 7 days @ 20°C
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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 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% thinner may be added. To retrieve the original colour of the wood, upto 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. **TIP:** Spray application is possible. However for the best results by spray gun, we recommend our specialized Epifanes PU Speedcoat Clear Gloss.

Guidelines for spray application:

Thinning volume	Nozzle RP	Pressure	Visco DIN-cup 4 mm
15-20%	1.2 mm - 1.5 mm	2-2.5 Bar	18-20 sec.

SYSTEM BUILD UP

Product	Step 1 EPIFANES PP Varnish extra	Step 2 EPIFANES PP Varnish extra	Step 3 EPIFANES PU Clear Gloss
Numb. of coats	1	At least 3, preferably more. More coats will further fill the wood grain and will deepen the lustre.	3
Thinner	EPIFANES Thinner for PP Varnish	Epifanes Thinner for PP Varnish	EPIFANES Poly-urethane Brush Thinner/PU Slow Reducer
Thinning ratio	25%	0-10%	15%
Drying time 20°C.	2-3 hours	2-3 hours	24 hours
Sanding grit	Dry P220	No sanding between coats within 48 hours. After 48 hours always sand with P320	Dry P400 or Scotch Bright - sand by hand
Remarks	First penetrating varnish coat. For full varnish penetration into the wood fibers, apply this 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.	Sand final coat PP Varnish Extra with P320 before applying the first coat. Between coats only lightly sanding is required.

Theoretical coverage 12m² per kg. @ 30 µm dry filmthickness
Practicle coverage Dependent on condition of substrate, loss of material due to factors such as application technique, shape of object, circumstances during application.

Recoatbility 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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