

Epifanes Poly-urethane Clear Gloss Varnish

A two-component clear gloss yacht varnish with UV filter

Type	Chemical drying						
Base	Polyester saturated, aliphatic urethane						
Properties	A two-component high-gloss yacht varnish with U.V. filter. Resistant to weathering, chemicals, scratching and loss of gloss. The outstanding flow characteristics make this two-component varnish highly suited for both brush and spray application.						
Field of application	Suited as a indoor and outdoor varnish system on its own on non-working (ply-)wood , as U.V.-resistant and protective finishing coat on epoxy resin or as an intermediate -adhesion- coat on wood treated with epoxy resin prior to the application of a one-component varnish.						
Colour	Waterclear						
Gloss	Extreme high gloss						
Density	1,07 kg/dm ³						
Viscosity	40 seconds ISO-cup 4 mm.						
Solids contents	50 ± 2 weight % = 40 ± 2 volume %						
VOC-level mixed product	569 gram / liter						
Packing	500gr. base + 250gr. cure = 750gr. 2 kg. base + 1 kg. cure = 3 kg.						
Mixing ratio by weight	2 parts base component A : 1 part curing component B						
Induction time at 20°C. / 65% RLV	10-15 minutes						
Potlife after mixing	<table border="1"> <thead> <tr> <th>at 12°C</th> <th>at 20°C</th> <th>at 30°C</th> </tr> </thead> <tbody> <tr> <td>4 - 6 hours</td> <td>3 - 4 hours</td> <td>2 - 3 hours</td> </tr> </tbody> </table>	at 12°C	at 20°C	at 30°C	4 - 6 hours	3 - 4 hours	2 - 3 hours
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Shelf life unmixed	In closed container stored in a dark location between 5- 25°C. approx. 2 years						
Conditions during application and drying	Temperature minimal 12°C. - maximum 28°C. Relative air humidity minimal 50% - maximum 75%						
Brushthinner	Epifanes Poly-urethane Brushthinner						
Spraythinner	Epifanes Poly-urethane Spraythinner						
Thinner guideline	Add thinner after mixing both components. Thinning ratio depends on temperature of mixed product and work area.						
Application tools	Soft, longhaired brush (oval/full style) - conventional air spray						
Recommended filmthickness / coat	60-80 µm wetfilmthickness = 30-40 µm dryfilmthickness						
Application recommendations	Do not overbrush. Do not apply wet-in-wet. Do not apply excessive wet films 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. Use only soft, long bristled, clean and dry brushes of good quality.						
Substrate conditions	Bare wood, dry, degreased and sanded, percentage of humidity inside the wood < 15%. Well cleaned, degreased, sanded, intact well adhering one- and two-component varnish systems.						

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Theoretical coverage 12 m² per kg. @ 35 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.

Application details

	Air spray	Brush
Thinning volume	10	0-5%
Nozzle	1.3 - 1.8 mm	
Pressure	3	
Viscosity DIN-cup 4 mm	20 - 22 sec.	Apply along the wood grain

Application remarks

Airless spray not advised. Pressure feed paint container: Pot life will be shortened due to temperature increase in the container.

Drying times @ 20°C. / 65% RAH and 30 µm dry filmthickness

Dustdry	Sandable	Recoatible	Through hardened
2 hours	24 hours	24 hours	14 days

Recoatibility

With itself between 24 and 48 hours without sanding. If recoated after 48 hours sand with P220 dry. Sand finishing coats with P360 wetordry.

Recoatible with One-component

Epifanes Clear Gloss Varnish - Epifanes Woodfinish Gloss
 Epifanes Rubbed Effect Varnish - Epifanes Rubbed Effect Low VOC

Two-component Epifanes Poly-urethane Clear Satin

System build up

Product	Nbr. of coats	Epifanes Thinner per coat	%	Drying times per coat at 18°C./65°F	Abrasive paper	Remarks
EPIFANES Poly-urethane Clear Gloss	1	EPIFANES Poly-urethane thinner	10-15	24 hours	220 dry	In order to minimize sinking of subsequent varnish coats, drysand wetfilm with P 220 wetordry and subsequently scrape clean.
EPIFANES Poly-urethane Clear Gloss	1	EPIFANES Poly-urethane Thinner	10-15	24 hours	220 dry	Apply this 2nd. Coat within 48 hours after the 1st. coat.
EPIFANES Poly-urethane Clear Gloss	2	EPIFANES Poly-urethane Thinner	0-10	24 hours	360 wet	Apply 4th. Coat within 48 hours after the 3rd. coat Lightly sand 4th. Coat with P360 wetordry
EPIFANES Poly-urethane Clear Gloss	2	EPIFANES Poly-urethane Thinner	0-10	24 hours	360 wet	If 6th. Coat is applied within 48 hours after 5th., sanding is not required. More finishing coats may be required for sufficient protection in warmer climates.
Min. total amount	6					

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Intercoat sanding

If subsequent coat is applied within 24 to 48 hours, intercoat sanding is not necessary. After 72 hours, sand with P360-400 wetordry abrasive paper.

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.

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