Technical Datasheet EN-009 09-2026

Epifanes Poly-urethane Clear Gloss

Two component high gloss PU varnish with high end UV filters





PRODUCT DESCRIPTION

This two-component 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). 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	Fully transparent
Density @ 20°C.	1035 gr. / dm^3
Viscosity @ 20°C.	40 seconds IS0-cup 4 mm
Solids contents	63 ± 2 vol. %
VOS-level	380 gram/liter
Packing	500gr. Component A + 250gr. Component B = 750gr. 2 kg. Component A + 1 kg. Component B. = 3 kg
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	2 parts base component A + 1 part curing component B
Induction time @ 20°C.	10 minutes
Rec. filmthickness	60 - 70 µm wet = 38 - 44 µm dry
Thinner brush	Epifanes Poly-urethane Brush Thinner / Epifanes PU Slow Reducer
Thinner Spray	For best results by spray gun, use our specialized Epifanes PU Speedcoat Clear Gloss.
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	10°C.	15°C.	20°C.	25°C.
Dustdry	4 hours	3 hours	2 hours	1 hour
Sandable/recoatable	48 hours	30 hours	24 hours	20 hours

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Pot life 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. 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!

Substrate

Bare wood: Degreased with Epifanes Spraythinner for Paint & Varnish and sanded P180 - P220
For full impregnation into the woodfibres, thin 1st. varnish coat 25%
Existing varnish: Degreased with Epifanes Spraythinner for Paint & Varnish and sanded P240 For a good grip on the varnish in place, thin 1st. varnish coat 10 – 15%

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.

Spray application For the best results by spray gun, we recommend our specialized Epifanes PU Speedcoat Clear Gloss.

System build-up

	Step 1	Step 2	Step 3
Product	**EPIFANES PP Varnish Extra**	**EPIFANES PP varnish Extra**	**EPIFANES Poly-urethane Clear Gloss**
Number of coats	**1**	**At least 3, preferably more. More coats will further fill and deepen the lustre.**	**3**
Thinning ratio	**25%**	**0 - 10 %**	**10 – 15%**
Drying time @ 20°C.	**2 - 3 hours**	**2 - 3 hours**	**24 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.**	**P-320 dry Sand by hand along the wood grain.**
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 U Brushthinner. This slow evaporating thinner will allow PP Varnish to flow better.**	**Sand final coat PP Varnish Extra with P320 before applying the first coat. Between coats only lightly sanding is required.**

Coverage Theoretical
Coverage practical

$12m^2$ per kg.@ 30 µm dry filmthickness
Dependent on condition of substrate, loss of material due to factors such as application technique, shape of object, circumstances during application.

Polishing

After 7 days full cure @ 20°C

Recoatability with other Epifanes varnishes

Epifanes Clear Varnish – Epifanes Woodfinish Gloss - Epifanes Woodfinish Matte
Epifanes Rubbed Effect Varnish – Epifanes Rapidclear – Epifanes Rapidcoat
Epifanes Poly-urethane Clear Satin - 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 respon 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 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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