

# Epifanes Poly-urethane Clear Satin

Two component PU varnish with high end UV filters



## PRODUCT DESCRIPTION

A hard, scratch resistant two-component clear satin varnish with UV filters. The UV filter protects the wood against discoloration. Therefore this varnish can be used in interior and exterior varnish systems. The varnish has an excellent water resistance and provides superior protection against alcohol and aggressive household chemicals.

**Field of use:** To be used as a finish in a full two-component varnish system. On dimensionally stable wood (i.e. marine plywood). Excellent for use on cabin soles or salon tables. For interior and exterior use. Maintenance of intact two-component interior varnish systems regardless of brand. On epoxy resin we recommend to apply a high gloss varnish first. On bare wood always build up with several high gloss coats.

## PRODUCT INFORMATION

<b>Type</b>	Chemical drying
<b>Base</b>	Acrylic poly-ol
<b>Gloss</b>	Satin (40% gloss)
<b>Colour</b>	Transparent
<b>Density at 68°F.</b>	1,035 g/cm <sup>3</sup>
<b>Viscosity</b>	40 seconds ISO-cup 4 mm
<b>Solids Contents</b>	60 ± 2 vol. %
<b>VOC-level</b>	380 g/l ( mixture )
<b>Packing</b>	500gr. Component A + 250gr. Component B = 750gr.
<b>Shelf life</b>	In closed, unopened container stored in a dry room at temperatures between 41-77°F Component A 3 years after production date Component B 1 year after production date
<b>Mixing ratio</b>	By weight : 2 parts component A (base) + 1 part component B (catalyst)
<b>Rec. filmthickness</b>	2-2.5 mil wet = 1-1.5 mil dry
<b>Induction time 68°F.</b>	10 minutes
<b>Thinner brush</b>	Epifanes Poly-urethane Brush Thinner / Epifanes PU Slow Reducer
<b>Thinner spray</b>	Epifanes Poly-urethane Spray Thinner
<b>Thinning in general</b>	Thinning ratio depends on product temperature and working area. Add thinner after mixing both components. Avoid overthinning.

Drying times	50°F.	59°F.	68°F.	77°F.
Dust dry	5 hours	3 hours	2 hours	1 hour
Sandable/Recoatable	48 hours	36 hours	24 hours	20 hours
Potlife after mixing	5 hours	4 hours	3 hours	1.5 hours

The above mentioned drying times are indicative at 65% RAH and 1 mil dry film thickness. Drying also depends on the amount of ventilation and applied wet film thickness. Higher wet film thickness and/or poor ventilation results in longer drying times. Especially horizontal parts may take longer to dry due to high wet film thickness. Allow each varnish coat sufficient time to dry. Do not apply wet-on-wet!

**Substrate** Bare wood : Start the system with multiple build up coats of Epifanes PP Varnish Extra.  
Maintenance of varnish: degreased and sanded 320G.



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### APPLICATION

Conditions during application **Temperature** minimal 50°F. - maximal 86°F.  
**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 decrease the flowing ability. Avoid large difference 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, up to 10% Epifanes Mahogany Stain or Epifanes Teak Stain may be added to the varnish. After drying, lightly sand the surface with 320G 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 PU Speedcoat Clear Satin.

**Guidelines for spray application:**

Thinning volume	Nozzle RP	Pressure	Visco DIN-cup 4 mm
15-20%	1.2 mm - 1.5 mm	30-37 psi	18-20 sec.

### SYSTEM BUILD UP (For interior use)

Product	Step 1 EPIFANES PP Varnish extra	Step 2 EPIFANES PP Varnish extra	Step 3 EPIFANES PU Clear Satin
Numb. of coats	1	At least 3, preferably more. More coats will further fill the wood grain and will deepen the lustre.	2
Thinner	EPIFANES Thinner for PP Varnish	Epifanes Thinner for PP Varnish	EPIFANES Poly-urethane Brush Thinner
Thinning ratio	25%	0-10%	0-5%
Drying time at 68°F.	2-3 hours	2-3 hours	24 hours
Sanding grit	Dry 220G	No sanding between coats within 48 hours. After 48 hours always sand with 320G.	Dry 320G 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 320G before applying the first satin coat. Between coats only lightly sanding is required.

**Theoretical coverage**  
**Practicle coverage**

150ft² per liter @ 1.5 mil dry film thickness  
 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 Gloss	2-C Gloss 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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