

N° 39.1

TOPCOAT CLEAR PU 360 UVR

VARNISH
Two component

Edition 03 2011

Two component acrylic polyurethane varnish « FLEXIBLE »
«very high performance ». Very high gloss, very high
resistance to U.V. To protect lacquers, resins and epoxy
varnish. « Very high physic and chemical performances »
GLOSS / SEMI-GLOSS / MATT / PEARL

FEATURES

TOPCOAT CLEAR PU 360 UVR has been formulated to procure protection and exceptional quality of finish for TOPCOAT COLOR PU 320, for composites carbon, and wood.

- Good recoatability.
- Easy polishing.
- Exceptionally high gloss and long lasting gloss retention,
- New / "wet look" aspect, provided surface preparation has been properly made.
- Brightness superior to 95 %.
- Resistance to UVA and UVB.
- Excellent application properties.
- Excellent chemical and hydraulic fluid resistance (Skydrol).
- Excellent anti-abrasion and tough coating. (Semi-gloss or matt possible on special request)

TOPCOAT CLEAR PU 360 UVR offers exceptional performance to the brightness retention as well as when important differences in temperature.

RECOMMENDED USES

TOPCOAT CLEAR PU 360 UVR is a special formulation to recoat TOPCOAT COLOUR PU 320, WOOD IMPREG 120, as well as GLASS ONE or SURF CLEAR in order to give a perfect finishing aspect and a very good longevity.

- Protection and decoration above water line and deck,
- Yachts carbon spars.
- High tech furnitures
- Exterior dashboards (protection against UV) for Yacht, cars, aviation, etc...

TOPCOAT CLEAR PU 360 UVR increases shine and depth effect, particularly with dark colors,

Meets Airspace NT 10113 and 10012 and Airbus TNA 10028 requirements. Meets BMS 10-60H requirements. Meets MIL C 83286 requirements.

TOPCOAT CLEAR PU 360 UVR available in TROPICAL version- Contact us

SPECIFICATION DATA

COATING TYPE: flexible polyurethane varnish

COLOUR : Clear

ASPECT : Very high shine > 95%
(or Matt, semi-gloss and Pearl)

PRESENTATION : two component

○ **COMPONENT RATIO**

Volume : 2 Base / 1 Brush Hardener

Volume : 1 Base / 1 Spray Hardener

INDUCTION TIME (at 20°C) : 10 minutes

POT LIFE (at 20°C) : 6 hours

THINNER : PU N° 2 Spray application – N° 4 Spray application in summer or brush application in winter, thinner N° 7 brush extra slow for brush applications in summer
, ACCELERATOR N° 702 - JOINT N° D 212

VOLUME SOLIDS : 34,2 +/- 2%

DENSITY AT 23°C : 0,98 +/-0,02%

VOC : 558 g/l

THEORETICAL SPREADING RATE:
6,8 Sq.m/L for 50 dry microns (150g/m³ wet)

RECOMMENDED FILM THICKNESS PER COAT :

Dry: 30 to 40 microns

Wet: 80 to 110 microns

RECOMMENDED FILM THICKNESS TOTAL:

Dry: 70 to 100 microns

Wet: 180 to 270 microns (2 to 3 crossed coat wet on wet)

DRY TIME : (at 23°C - 40 to 60 % HR) :

Dustfree: 1 hour

To handle: 8 hours

Masquable : 16 to 18 hours

DRY TIME TO RECOAT : (at 23°C - 40 to 60 % HR) :

Minimum : 2 hours

Maximum : 72 hours

Nota : Informations for spray hardener

MAXIMUM TEMPERATURE RESISTANCE : -60 to +120°C

SURFACE PREPARATION

All surfaces must be free of grease, dust, dry spray, moisture and other foreign matter and be properly primed with a compatible epoxy primer. To ensure the best appearance, the primer or undercoat should be smooth and free of any surface defects such as runs, dry spray or heavy orange peel.

To obtain a perfect quality of finish, **TOPCOAT COLOR PU 360 UVR** should be applied on **TOPCOAT COLOR PU 320**. **TOPCOAT CLEAR PU 360 UVR** can be applied directly on lacquer without sanding, if the **TOPCOAT COLOR PU 320** has been well applied and if this operation has been made between 24 to 72 hours at 23°C. **TOPCOAT CLEAR PU 360 UVR**, can be applied on epoxy varnish WOOD IMPREG 120 or on epoxy systems GLASS ONE or SURF CLEAR, previously sanded with grit 320/400 and dustcleaned.

For all other type of coating, contact our technical department.

MIXING AND THINNING

Before mixing the components, mix carefully the base portion first to obtain a smooth, homogeneous condition. After mixing the base portion, add the hardener slowly with continued agitation. After adding the hardener, continue to mix slowly.

SPRAY VERSION : After 10 minutes of induction time, it's possible to diluate from 0 to 20 % of PU N° 2 and/or PU N° 4 summer – see FT thinner N° 41 (depends on application conditions or method).

You can use booster thinner N° 702 for application in bad weather. You can use Joint thinner D 212 for spot finishing, matt aspect or overspray on wet film or for repair on dry film.

BRUSH VERSION : for brush application, After 5 minutes of induction time, it's possible to diluate from 10 to 40 % of PU N° 4 or Brush extra slow in summer – see FT thinner N° 41 (depends on application conditions or method).

You must check the viscosity every 2 hours. Don't forget to mix after every dilution.

APPLICATIONS

APPLICATION METHOD		THINNING	TIP SIZES	PRESSURE
BRUSH	YES	10 to 40%		
ROLLER	YES	10 to 40%		
SPRAY GUN	YES	0 to 20%	1,1 to 1,8	2 to 5 BARS
AIRLESS	YES	0 to 5%	0,011 to 0,013 mm	100 to 200 BARS
ELECTROSTATIC GUN	YES	10 to 20%	1,2 to 1,8	3,5 to 5 BARS

CONDITIONS FOR APPLICATION :

Optimum : 20 to 25 °C for 40 to 70 % HR

Limit : 15 to 30°C for 30 to 70 % HR – **CONTACT US for TROPICAL VERSION**

○
The substrate temperature must be at least 3°C above the dew point to avoid any condensation - consult the conversion table available at Map Yachting.

VISCOSITY : 13 to 15 s Cup AFNOR n°4 40s to 50s Cup AFNOR n°2,5

PRECAUTIONS AND SHELF LIFE

See the material safety data sheet and product label for complete safety and precaution requirements

PACKAGING: 1 or 5 Liters BASE and SPRAY Hardener - 0,5 or 2,5 Liters for BRUSH Hardener

CLASS ONU : 1263

SHELF LIFE : **Base :** 24 months **Hardener :** 12 months in original unopened cans at + 5 and + 35 °C away from humidity

Base : 12 months **Hardener :** 9 months in tropical climate

FLASH POINT : Base = >21°C. Hardener : <21°C

LABEL : Base = F : Flammable Hardener = F : Highly Flammable Xn : Harmful



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