

HP-PUR

- Top Coat, Spar Varnish -

Two-component polyurethane varnish for high quality and weatherproof coatings with intense gloss.

Features & Benefits:

- professional two-component polyurethane coating finish for industrial paintings
- high weather resistance and long-lasting colour retention by good UV protection
- suitable for coating of machines, ship parts, furnitures, containers and especially for FRP surfaces
- ready to be sprayed, manual application with soft paint-brush or flocked roller is also possible

Important advice:

Unsuitable for applications under water!
No adhesion on PE, PP, PTFE,...

→ Observe also the advices on the back of the data sheet!

Material Properties:

Basis	two-component polyurethane-system
Colouring	several colours available (according to RAL)
Spray Viscosity (flow cup DIN 4)	17 - 18 sec. (4mm DIN at 20°C)

Processing Data:

	HP-PUR - Resin -	HP-PUR - Hardener -	HP-IMC-X - PUR thinner -
Mixture ratio (parts)	100	25	10 - 20
Pot life time (at 20°C)	approx. 3 hours		
Processing temperature (optimal)	18 - 25 °C		
Processing conditions	from 15°C and up to 70% relative humidity		

Drying Times¹:

Drying times	at 20°C		
dust-free		20 - 30	minutes
non-sticky		4 - 5	hours
complete drying process		48	hours
Furnace drying	at 60°C		
non-sticky		ca. 30	minutes (let it air for 30 minutes before heating)
Fully loadable after		6 - 7	days (at 20°C)

¹result depend on temperature and film thickness

Surface preparation:

The surface must be clean, dry, free of grease, rust and old paints.

	FRP / GRP	Wood	Alu	Steel	Product / Remarks
Cleaning	yes	yes	yes	yes	HP-AC (acetone)
Grinding	180-220	80-180 and lower	sandblasting		sanding paper / grind pads
Putty / fill in	on demand				HP-E45KL and filling agents
Grounding / Sealing	no	yes	yes	yes	E80FS + thinner XB

Safety Instructions:

The safety instructions are to be taken as being of greatest importance.
Do not allow children to handle. Prevent inhalation of the fumes and contact with the bare skin.
Wear approved protective gloves and goggles. If ingested do not eat, drink or smoke.
Spraying should be carried out under well-ventilated conditions. Avoid inhalation of solvent vapours and paint mist by wearing an air mask. Contains xylene.

Blending:

Mix resin and hardener (100:25 parts by weight) free of air bubbles. Before starting, allow paint to flash approx. 10 minutes. Use within pot-life time.

Application / Methodes:

For best surfaces, spraying is recommended.

Spray nozzle:	approx. 1,2 - 1,4mm, HVLP approx. 1,3 - 1,4mm
Spray pressure:	approx. 4bar, HVLP approx. 2 - 2,5bar
Number of coats:	2 - 3 (recommended)
Film thickness:	40 - 50µm (per layer)
Consumption:	1 litre for approx. 7m² at 50µm

Application with flocked roller and soft brush is possible.

Electrostatic application (ESTA) is also possible.

We recommend coating trials incl. adhesion tests beforehand

Work only under well-ventilated conditions. Avoid condensation moisture.

Prevent coated surfaces for water / humidity at minimum 24h at 20°C.

V.O.C. sprayable product: 480 -500 g/L

Cleaning work tools:

Unhardened product remains can be removed from tools by means of acetone . Tools should be given a good airing after being cleaned with these solvents, in order to prevent the solvent from being retained until the tool is used again in a process.

Hardened remains can only be removed by mechanical means such as grinding tools.

Storage:

Store in a cool and dry place. Stir up well before using.

With optimal storage conditions, shelf-life should be beyond 12 months.

Disposal:

Do not dispose of through the sewerage system, on areas of open water, or in the soil.

The hardened product waste should be treated as building rubbish or household rubbish.

Further Information:

Further application information can be obtained from our Internet site, by selecting Product Info on the homepage. Please do not hesitate to contact us by telephone if you have further queries.

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so.

It is the user's responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

We recommend tests be performed for trials and suitability for the particular type of application.
With the newest printing of this data sheet the previous version loose validity!