

# POLYTOP PU 99

Technical sheet no. 26

Editing September 2022

TYPE OF PRODUCT :

## POLYURETHANE POLYESTER LAQUER

### PROPERTIES :

POLYTOP PU 99 is a high solids lacquer formulated with polyester resins and new generation thinners.

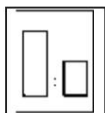
The POLYTOP PU 99 is tolerant it ensures:

- Excellent gloss and depth retention.
- Excellent abrasion and scratch resistance.
- Excellent value for money.
- Very easy to apply and tolerant in difficult conditions.
- Quick drying and dust removal.
- Good hiding power and high yield.
- Very good resistance to aging and UV.
- Resistant to fuel splashes.
- Polishable after 48h at 20°C for 50m dryness.
- In very resistant non-slip by incorporating DECK GRIP M200 directly when mixing.



Information  
Products

### COMPONENTS:



Hardeners  
Thinners

Polytop PU 99 Hardeners  
Spray thinners: PU N°2 (winter) or PU N° 4 (summer)  
Thinners Brush or Roller: PU N° 7

DILUTIONS:

BRUSHES AND ROLLS from 20% to 50%  
PNEUMATIC GUN from 25% to 40%

### SPECIFICATIONS :



Standards and  
Qualifications

MAP YACHTING *Paint Systems* SPEC

For the latest missing updates, please check with us at [sales@map-yachting.com](mailto:sales@map-yachting.com)

The information contained in this edition is based on our current knowledge and experience. Given the many factors that can affect the transformation and application of our products, this information does not in any way release any user from his obligations to carry out his own checks and tests. Nor do they constitute a guarantee of certain characteristics of the products or of their adaptation to a specific need. Any description, photo, data etc. Is mentioned for information only. The most recent version cancels and replaces all previous versions. The most recent document is available on our website [www.map-yachting.com](http://www.map-yachting.com), or directly from your distributor. The recipient of our products is required to ensure that all industrial property rights and all laws and regulations in force are respected.

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## Surface Preparation



All surfaces to be covered must be free of dirt, pollution due to grease, water vapour, (refer to the dew point table) dust or mould. In order to ensure a perfect finish, and to obtain an excellent quality of surface tension, the interfaces or undercoats must be perfectly smooth, and free of drips or orange peel and sanded with very high quality abrasives to the FEPA standard.

POLYTOP PU 99 can also be applied on primers, EP 211, IM409, EP 215 HB, EP 215 HB+, EPU 221, PU225-PU228 systems, and receive POLYCLEAR PU 630 UVR, PU 360 UVR, BASECOAT F16 finishes , TOPCOAT PU320-PU380 and the DECKTHANE UVR anti-slip system.

## Manual



### Mixing ratio

Volume: 5 Base / 1 Hardener

Weight: 100 (gr) Base 17 (gr) Hardener

Allow products to acclimate to ambient site temperature before use. The base should be mixed thoroughly for at least 5 minutes using a clean disperser mounted on an explosion-proof stirrer. Then add the part of hardener by pouring it slowly and continuing to mix until a liquid with a smooth and homogeneous unctuous appearance is obtained. Since the two components are of different viscosity, the edges of the mixing container should be carefully scraped with a spatula. Mixing containers should have flat bottoms and perfectly smooth edges.



### Duration drying

10 minutes at 10°C  
None at 20°C



### Viscosity initial of application (at 23°C)

25s to 35s AFNOR Cup n°4



### Remark

The viscosity should be checked using AFNOR cup no. 4 and readjusted if necessary. A viscosity check is recommended every 1/2 hour. Do not forget to mix well after each readjustment by diluting. Viscosity measurements are provided for guidance only and should not be used as quality control parameters.

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**Shelf life of the mixture at 20°C**

4 hours



**Remark**

Film weight for 100µm dry 257g/m<sup>2</sup>



**Dry film thickness**

60 –90µm

## Applications & Recommendations



**Conditions**

<u>Hardeners :</u>	Polytop PU 99 Hardener	Polytop PU 99 Hardener
Temperature:	15 - 17°C	20 - 25°C
Hygrometry :	30 - 65%	40 – 70%



**Note**

The quality of application of all coatings will be influenced by the spray equipment chosen and by the temperature, humidity and airflow of the paint application area. When first applying the product, it is recommended that test panels be prepared to identify the best equipment settings to use to optimize the performance and appearance of the coating. POLYTOP PU 99 can be applied in conditions outside the limits indicated. Care should be taken to ensure a satisfactory result. Please contact your MAP YACHTING Paint Systems technician to determine proper application techniques and choice of thinners when environmental conditions are outside the recommended range.



**Remark**

The quality of the coating may be degraded by humidity during its crosslinking phase.

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## Materiel

Pressure pot  
Pistol : AZ1/ IWATA WS200SP / WS200FT / W200G2P  
Nozzle + Needle: 1.2mm to 1.6mm  
Paint flow: 170 - 280 ml/min  
Air cap: G2P / WS-200SP-01 / WS-200FT-01 / WS-200FT-02  
Gun pressure: 2.5 – 3.0 Bars  
Pressure Product: 1 Bar  
Gravity spray gun  
Spray gun: AZ3 /IWATA WS400 / W400 / W400WB / W400 BELLARIA  
Nozzle+ Needle: 1.2 mm to 1.6mm  
Paint flow: 140 - 250 ml/min  
Air cap: LV2 / BA4-1 / WB1 / WBX  
Gun pressure : 1.8 – 2.5 Bars  
Airless  
Nozzle : 0,011 - 0,013 mm  
Pressure : 100 - 200 Bars  
Electrostatic  
Nozzle: 1.2 – 1.6 mm  
Pressure: 3.5 - 5 Bars

Roller or brush  
Lacquer roll or foam roll



## Name of lying down

Apply in 2 coats a wet film of 80 to 90 $\mu$ m. The layers must be closed and homogeneous.







## Cleaning the material

Do the first cleaning with cleaning thinner (noble solvent without water and not recycled) and finish cleaning with the application solvent of the MAP YACHTING Paint Systems system.

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Physical properties		USE LIMIT TEMPERATURE :	+100 °C												
	<b>Time to Drying</b> (at 23°C – 40 to 60% RH)	Drying time given for 80µm dry:													
		<table border="1"> <thead> <tr> <th>Temperature</th> <th>Touch to dry</th> <th>Masking</th> </tr> </thead> <tbody> <tr> <td>10°C</td> <td>6 hours</td> <td>48 hours</td> </tr> <tr> <td>20°C</td> <td>4 hours</td> <td>16 hours</td> </tr> <tr> <td>30°C</td> <td>2 hours</td> <td>12 hours</td> </tr> </tbody> </table>	Temperature	Touch to dry	Masking	10°C	6 hours	48 hours	20°C	4 hours	16 hours	30°C	2 hours	12 hours	
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10°C	6 hours	48 hours													
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	<b>Recovery (at 23°C – 40 to 60% RH)</b>	By itself without sanding given for 60µm dry (in Spray):													
		<table border="1"> <thead> <tr> <th>Temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>10°C</td> <td>6 hours</td> <td>24 hours</td> </tr> <tr> <td>20°C</td> <td>1 hour</td> <td>24 hours</td> </tr> <tr> <td>30°C</td> <td>30 minutes</td> <td>NC</td> </tr> </tbody> </table>	Temperature	Minimum	Maximum	10°C	6 hours	24 hours	20°C	1 hour	24 hours	30°C	30 minutes	NC	
Temperature	Minimum	Maximum													
10°C	6 hours	24 hours													
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30°C	30 minutes	NC													
	<b>YIELD</b> THEORETICALLY	6 m <sup>2</sup> /l for 80 µm dry (without loss, depends on the colors)													
	<b>Dry extract in Volume you Mixed</b>	52.5 +/- 3%													
	<b>Density of Mix at 20°C</b>	1.35 +/-0.05% for white													
	<b>Compounds organic Volatiles</b>	EU limit value for this product (cat. A/j): 500 g/l (2010) This product contains a maximum of 475 g/l of VOC													

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**ASPECT**  
(at 60°)

Gloss: +90GU\*  
\*GU= Gloss unit



**Colors**

According to RAL, AFNOR, NCS color charts



**Flash point**

Base and Hardener: 23°C ≤ PE ≤ 55°C



**Storage**

Store the product in a dry place and at a temperature between + 10°C and + 25°C according to the specifications of MAP YACHTING Paint Systems. Store in original unopened containers. Storage temperature may vary depending on OEM specification requirements. Refer to container label for specific information on storage time.

**Lifetime**  
+10°C to 25°C

The information is given for closed containers in the original packaging, i.e. 24 months according to the commercial specifications of MAP YACHTING Paint Systems for the POLYTOP PU 99 base and 24 months for the hardener. Shelf life may vary due to OEM specification requirements. Refer to container label for specific shelf life information.

## Safety instructions

Comply with all local safety, disposal and transportation regulations. Carefully check the Safety Data Sheet (SDS) and label of each product before using it.

Safety Data Sheets are available on request.

**Publication date:** September 2022 - ONLY FOR PROFESSIONAL USE -

Exhaustive and is based on the current state of our knowledge and on the laws in force: anyone using the product for purposes other than those specifically recommended in the data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended use does so at its own risk. It is always the responsibility of the user to take all necessary measures to meet the requirements set by local rules and legislation. Always read the Material Data Sheet and Technical Data Sheet for that product, if available. All advice we give or statements we make about the product (whether in this data sheet or elsewhere) are correct to the best of our knowledge, but we have no control over the quality or condition of the substrate or on the many factors affecting the use and application of the product. Therefore, unless we agree otherwise in writing, we accept no liability whatsoever for the performance of the product or for any loss or damage arising from the use of the product. All products supplied and technical advice given are subject to our terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to change from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check that this data sheet is up to date before using the product. **Brand names mentioned in this data sheet are registered trademarks or licensed to:**