

ACRYLTOP PU 77

Technical sheet no. 25

Editing September 2022

TYPE OF PRODUCT :

ACRYLIC POLYURETHANE LACQUER

PROPERTIES :



Information
Products

ACRYLTOP PU 77 finishing lacquer is a two-component polyurethane lacquer with high dry extract and high covering power. ACRYLTOP PU 77 topcoat is a hard and tenacious coating which provides very good protection and a good quality finish over a long period of time. It is perfectly resistant to UV without risk of chalking even in the most extreme environmental conditions. Ideal for urban, industrial or maritime environments. ACRYLTOP PU 77 retains very good resistance to high temperatures with no risk of yellowing over time.

ACRYLTOP PU 77 is easy to apply with brush, roller, AIRLESS, and pneumatic gun.

ACRYLTOP PU 77 provides a quality finish for :

The hulls, decks of ships and pleasure boats
Spars, exteriors of storage tanks
Industrial metal structures in a marine environment

It can be used by brush, lacquer roller or foam as an interior and exterior finish, available in gloss, satin or matt version.

Also available in a non-slip version (very resistant), incorporating DECK GRIP M200 directly when mixing.

COMPONENTS:

Hardener ACRYLTOP PU 77

Spray thinners: PU N°2 (winter) or PU N° 4 (summer)

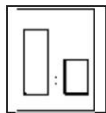
Thinners Brush or Roller: PU N° 7 (summer) PU N°4 (winter)

DILUTIONS:

BRUSHES AND ROLLS from 15% to 30%

PNEUMATIC GUN from 15% to 30%

AIRLESS from 3% to 5%



Hardeners
Thinners

SPECIFICATIONS :



Standards and
Qualifications

MAP YACHTING *Paint Systems* SPEC

For the latest missing updates, please check with us at 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, 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.

ACRYLTOP PU 77 can also be used on primers, EP 211, IM409, EP 215 HB, EP 215 HB+, EPU 221, PU225-PU228 systems, and receive PU 360 UVR, POLYCLEAR PU 630 UVR finishes, BASECOAT F16, TOPCOAT PU320-PU380 and the DECKTHANE UVR anti-slip system.

Manual



Mixing ratio

Volume: **100** : Base / **15** Hardener

Weight: **100 (gr)** Base / **14 (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)

16s to 22s 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 247g/m²



Dry film thickness

60-80µm

Applications & Recommendations



Conditions

Hardeners : **Acryltop PU 77 Hardener** **Acryltop PU 77 Hardener**

Temperature: 10 - 17°C 20 - 30°C

Hygrometry : 30 - 80% 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. ACRYLTOP PU 77 can be applied in conditions outside the indicated limits. 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 Gun:
IWATA WS200SP / WS200FT / W200G2P
Nozzle + Needle: 0.8mm to 1.2mm
Paint flow: 170 - 280 ml/min
Air cap: G2P / WS-200SP-01 / WS-200FT-01 / WS-200FT -02
Gun pressure: 2.5 – 3.5 Bars
Fluid pressure: 1 Bar
Gravity gun
Gun : 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

Roller or Brush
Foam or lacquer roller



Name of lying down

Apply in 2 coats a wet film of 80 to 90 μm .
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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ACRYLTOP PU 77

Physical properties		USE LIMIT TEMPERATURE :	+100 °C												
	Time to Drying (at 23°C – 40 to 60% RH)	Drying time given for 80µm dry:													
		<table border="1"> <thead> <tr> <th>Temperature</th> <th>Dry to the touch</th> <th>Masking</th> </tr> </thead> <tbody> <tr> <td>10°C</td> <td>6 hours</td> <td>12 hours</td> </tr> <tr> <td>20°C</td> <td>4 hours</td> <td>6 hours</td> </tr> <tr> <td>30°C</td> <td>2 hours</td> <td>4 hours</td> </tr> </tbody> </table>	Temperature	Dry to the touch	Masking	10°C	6 hours	12 hours	20°C	4 hours	6 hours	30°C	2 hours	4 hours	
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10°C	6 hours	12 hours													
20°C	4 hours	6 hours													
30°C	2 hours	4 hours													
	Recovery (at 23°C – 40 to 60% RH)	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>24 hours</td> <td>12 months</td> </tr> <tr> <td>20°C</td> <td>12 hours</td> <td>12 months</td> </tr> <tr> <td>30°C</td> <td>6 hours</td> <td>12 months</td> </tr> </tbody> </table>	Temperature	Minimum	Maximum	10°C	24 hours	12 months	20°C	12 hours	12 months	30°C	6 hours	12 months	
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30°C	6 hours	12 months													
	YIELD THEORETICALLY	6.5 m ² / l for 80µm dry (without loss, depends on the colors)													
	Dry extract in Volume you Mixed	52.5 +/- 3%													
	Density of Mix at 20°C	1.21 +/-0.05% for white													
	Compounds organic Volatiles	EU limit value for this product (cat. A/j): 500 g/l (2010) This product contains a maximum of 500 g/l VOC													

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ASPECT

(at 60°)

Gloss: +80GU* Satin : +40-60GU Matte : +5-10GU

*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 ACRYLTOP PU 77 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:**

MAP YACHTING Paint Systems

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