

## TOPCOAT CLEAR PU 360 UVR

## Technical sheet no. 33

Editing September 2022

| TYPE OF PRODUCT :                                   | ACRYLIC POLYURETHANE VARNISH   |
|---|--|
| PROPERTIES :<br>Information<br>Products             | <ul> <li>TOPCOAT CLEAR PU 360 UVR finishing varnish has been specially formulated to provide protection and an exceptional quality of finish in the fields of aeronautics and yachting.</li> <li>TOPCOAT CLEAR PU 360 UVR:</li> <li>After polymerization, offers an exceptional stretch and depth.</li> <li>Keeps its shiny appearance over time, and a permanent wet appearance.</li> <li>Retains great flexibility over time at 60% elongation.</li> <li>Offers the applicator very easy application, by brush, pneumatic or electrostatic gun.</li> <li>Polishing and retouching possible after 7 days at 23°C for 60µm dryness.</li> <li>TOPCOAT CLEAR PU 360 UVR offers exceptional performance and resistance over time:</li> <li>No chalking to UV, UVA and UVB (high altitude).</li> <li>Resists physical aggressions such as impacts, shocks, chafing, abrasions and scratches.</li> <li>Resists chemical attacks such as SKYDROL type hydraulic oils or kerosene.</li> <li>TOPCOAT CLEAR PU 360 UVR offers exceptional performance, perfect retention of color and shine as well as violent temperature variations.</li> </ul> |
| COMPONENTS:   | Topcoat Hardener 320/360<br>Topcoat Hardener 320/360 Brush<br>Topcoat Hardener 320/360 Brush Extra Slow<br>PU n° 2 Spray Standard<br>PU n° 4 Slow Spray or Winter Brush<br>PU n° 7 Extra slow brush<br>PU No. 702 Accelerator<br>PU No. 207 Speed bump<br>PU No. 212 Coupling<br>DILUTIONS:<br>BRUSHES AND ROLLS from 25% to 40%<br>PNEUMATIC GUN from 15% to 30%  |
| SPECIFICATIONS :<br>Standards and<br>Qualifications | MAP YACHTING Paint Systems SPEC  |
|   | For the latest missing updates, please check with us at sales@map-yachting.com   |
| The information contai                              | ned in this edition is based on our current knowledge and experience. Given the many factors that can affect the   |



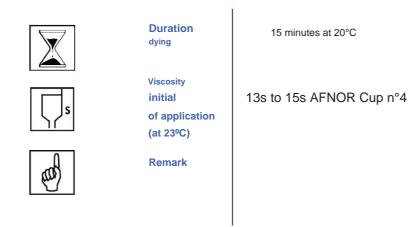
## **Surface Preparation**



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.

| Manual | Report of | Volume (ml) | : | 1 | Base | / | 1 | Spray Hardener               |
|--------|-----------|-------------|---|---|------|---|---|------------------------------|
|        | mixed     | Volume (ml) | : | 2 | Base | / | 1 | Brush or Extra Slow Hardener |

Allow products to acclimate to ambient site temperature before use. 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.





|         | Shelf life of<br>the mixture at 20°C | 6 hours  |
|---------|--------------------------------------|--|
| and the | Remark                               | Information is given for the hardener in spray version.                              |
| tμm     | Dry film thickness                   | 60 – 100 microns ( $\mu$ m)<br>Depending on the color, to obtain an adequate finish. |

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## **Applications & Recommendations**

| Conditions | Conditions   | Hardeners :  | 320/360 Spray | 320/360 Brush                     | 320/360 Brush Extra Slow |
|------------|--------------|--------------|---------------|-----------------------------------|--------------------------|
|            | Temperature: | 17 – 23°C    | 15 – 23°C     | 25 – 30°C                         |                          |
| ~~         |              | Hygrometry : | 40 – 70%      | 30 65%                            | 30 - 65%                 |
| and        | Note         |              | •             | ill be influenced by the spray eq |                          |

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. TOPCOAT CLEAR PU 360 UVR varnish 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

Using compounds for polishing may tend to dull or lighten darker colors. TOPCOAT 360 UVR varnish is recommended in this case.





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Cleaning the material

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 - 3.0 Bars Pressure Product: 1 Bar Gravity gun Gun: IWATA WS400 / W400 / W400WB / W400 BELLARIA Tip+ Needle: 1.2 mm to 1.4mm 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 - 1.8 mm Pressure: 3.5 - 5 Bars Brush or Roller Lacquer or Foam lacquer Do not "paint to try to cover" when applying the 1st coat. Apply in 3 coats a wet film, for a time of 45 minutes minimum of evaporation at

23°C for the 1st coat. The final 2° and 3° coats must be closed, smooth and homogeneous with a covering time of 1h to 1h30 at 23°C between coats.

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.



| Physical propertie | es   | USE LIMIT TEMPERATURE : -60°C to +120°C   |  |
|--------------------|--|---|--|
|                    | Time to<br>Drying<br>(at 23°C<br>– 40 to 60% RH) | Drying time for 60µm dry. 320/360 (Spray Hardener)<br>Dust free: 1 hour<br>Dry to touch: 8 hours<br>Masking: 16 to 18 hours<br>Total curing: 7 days   |  |
|                    | Recovery (at<br>23°C – 40 to<br>60% RH)          | Minimum<br>From 45 minutes to 1 hour 30<br>Maximum<br>TOPCOAT CLEAR PU 360 UVR is recoatable without sanding within 72 hours. If the drying<br>exceeded, contact us.<br>TOPCOAT CLEAR PU 360 UVR is recoatable within 7 days when sanded with P400 sandp<br>properly cleaned and degreased. |  |
| M <sup>2</sup>     | YIELD<br>THEORETICALLY                           | 6.8 m <sup>2</sup> /l for 50 $\mu$ m dry (without loss)   |  |
|                    | Dry extract in<br>Volume you<br>Mixed            | 34.2 +/- 2% (a spray version)   |  |
|                    | Density of<br>Mix at 20°C                        | 1.004 +/-0.02% (a spray version)  |  |
| VOC                | Compounds<br>organic<br>Volatiles                | Base: 493.00 g/l<br>Hardener: 688.00 g/l<br>Brush hardener: 488.00 g/l<br>Extra slow brush hardener: 484.00 g/l   |  |



| GU                  | ASPECT<br>(at 60°)        | Gloss + 95GU*<br>*GU= G l o s s Unit  | Satin 15-20GU*              | Matt 0-5GU*   |  |  |
|---------------------|---------------------------|---|-----------------------------|---|--|--|
| ٩                   | Colors                    | Colorless   |                             |   |  |  |
| ٢                   | Flash point               | Bases: 23 <= PE <<br>Hardener Brush/e:<br>Spray hardener: P   | ktra slow:23 <= PE<=        | 55 °C   |  |  |
| Ţ                   | Storage                   | and + 25°C according to<br>in original unopened cont  | ainers. Storage temperature | between + 10°C<br>CHTING Paint Systems. Store<br>may vary depending on OEM<br>specific information on storage |  |  |
|                     | Lifetime<br>+10°C to 25°C | months according to the cc<br>the TOPCOAT CLEAR PU  |                             | YACHTING Paint Systems for for the 320/360 catalysts. Shelf   |  |  |
| Safety instructions |                           | Comply with all local safety, disposal and transportation regulations.<br>Carefully check the Safety Data Sheet (SDS) and label of each<br>product before using it. |                             |   |  |  |
|                     | I                         | Safety Data Sheets  | are available on request    | t.  |  |  |

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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:** 

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