

CLEAR VARNISH

Technical sheet no. 32

Editing September 2022

TYPE OF PRODUCT :

ONE-COMPONENT ALKYD-URETHANE VARNISH

PROPERTIES :



Information
Products

CLEAR VARNISH is a mono-component ALKYD-URETHANE varnish applicable in multilayer:

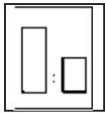
- Colorless.
- Very nice stretched.
- Specially suitable for interior finishes.
- Very good resistance in marine atmosphere.
- Ease to recover.
- Can be applied by brush or spray.
- Fast drying.

CLEAR VARNISH is recommended for finishing boat interiors.

CLEAR VARNISH is applicable in multicoats for the protection and decoration of :

- Boat furniture.
- Interior joinery.
- Solid wood and interior veneers.

COMPONENTS:



Hardeners
Thinners

Mono-component

White Spirit

DILUTIONS:

- BRUSHES AND ROLLS from 0% to 10%
- PNEUMATIC GUN from 5% to 10%
- AIRLESS from 3% to 5%

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.

CLEAR VARNISH

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



Mixing ratio

None

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
dying

None at 20°C



Viscosity
initial
of application
(at 23°C)

None 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 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

None



Remark

Film weight for 100µm dry 238g/m²



Dry film thickness

50-60µm

Applications & Recommendations



Conditions

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. CLEAR VARNISH can be applied under 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 Gun:
AZ1/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
Fluid pressure: 1 Bar
Gravity gun
Pistol : AZ3 /IWATA WS400 / W400 / W400WB / W400 BELLARIA
Nozzle + Needle: 1.2 mm to 1.8mm
Paint flow: 140 – 250 ml/min
Air cap: LV2 / BA4-1 / WB1 / WBX
Gun pressure: 1.8 – 2.5 Bars



Name of lying down

2 coats of 20-30 μ m dry




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 : +90 °C		
	Time to Drying (at 23°C – 40 to 60% RH)	Drying time given for 50µm dry:		
		Temperature 20°C	Dry to the touch 4 hours	Masking 48 hours
	Recovery (at 23°C – 40 to 60% RH)	Overcoating without Sanding by itself given for 50µm dry (in Spray) :		
		Temperature 20°C	Minimum 12 hours	Maximum 24 hours
	YIELD THEORETICALLY	10 m² /L for 60 µm dry (without loss)		
	Dry extract in Volume you Mixed	39 +/- 3%		
	Density of Mix at 20°C	0.90 +/-0,05%		
	Compounds organic Volatiles	EU limit value for this product. (cat. A/e): 400 g/l (2010). This product contains a maximum of 400 g/l VOC		

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ASPECT
(at 60°)

Bright



Colors

Colorless



Flash point

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. 12 months according to the commercial specifications of MAP YACHTING Paint Systems for the base of Le CLEAR VARNISH. The shelf life may vary due to the requirements of the specifications of the equipment manufacturer. 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:**