
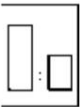



# BASECOAT F16

Technical sheet no. 45

Editing September 2022

<p>TYPE OF PRODUCT :</p>	<p>POLYESTER MATT BASE FOR EXTERIOR AND INTERIOR FINISHES</p>
<p><b>PROPERTIES :</b></p>  <p>Information Products</p>	<p>Based on the latest technologies in solvent-based polyester resins, BASECOAT F 16 has been specially developed for the decoration and protection of yachts and pleasure boats. Its components guarantee excellent UV resistance over time, and offer perfect color stability by covering it with TOPCOAT 360 UVR varnish.          BASECOAT F 16 is a matte base with high opacifying power and high performance, it is applied in a thin film (25 to 70 <math>\mu\text{m}</math> dry depending on the shades)          BASECOAT F 16 is very easy to apply.          Very good taut.          Short desolvation time.          Very easy to apply the exterior protection and decoration of yachts and pleasure boats.          For yachts and pleasure boats applied on:          Topsides.          Superstructures.          Masts.          After application, it can be covered by itself or by the compatible varnishes listed below with 1/2 hour minimum desolventization and 6 hours maximum at 20 °C.          Varnishes are:          TOPCOAT CLEAR 360 UVR or TOPCOAT CLEAR 360 UVR TROPICAL or POLYCLEAR PU630 UVR.</p>
<p><b>COMPONENTS:</b></p>  <p>Hardeners Thinners</p>	<p>Basecoat F16 hardeners</p> <p>Spray thinners: FAST F16 (winter - small surfaces)          MEDIUM F16 (all seasons - medium surfaces)          SLOW F16 (summer - large areas)</p> <p><b>DILUTIONS:</b>          PNEUMATIC GUN from 50% to 60%</p>
<p><b>SPECIFICATIONS :</b></p>  <p>Standards and Qualifications</p>	<p>MAP YACHTING <i>Paint Systems</i> SPEC</p> <p>For the latest missing updates, please check with us at <a href="mailto:sales@map-yachting.com">sales@map-yachting.com</a></p>

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.

## 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.

BASECOAT F 16 can also be used on EP 215 HB, EP 215 HB+, EPU 221, PU225-PU228 systems, can receive PU 360 UVR or PU 360 UVR TROPICAL topcoats

## Manual



Report of  
mixed

- Weight: 100gr of Base + 5gr of hardener
- Volume: 10 Volumes of Base for 0.5 Volume of hardener
- Thinner 50% - 2 Volumes of Mix + 1 Volume of thinner

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.



Duration  
dying

None



Viscosity  
initial  
of application  
(at 23°C)

16 to 20 seconds in the AFNOR N°4 cup (values given for a 50% dilution may vary depending on the colors)



Remark

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**Shelf life of the mixture at 20°C**

Uncatalyzed (at 20°C): None  
Catalyzed at 5%: 1h30



**Remark**

It is possible to use the BASECOAT F16 without catalyst. However, it is strongly recommended to catalyze BASECOAT F16 with F16 catalyst from 1% to 5% before dilution.



**Dry film thickness**

30 –40μm (values given for a 50% dilution may vary depending on the colors)

## Applications & Recommendations



**Conditions**

<u>Hardeners :</u>	Basecoat F16 Hardener	Basecoat F16 Hardener
Temperature:	15 - 25°C	25 - 30°C
Hygrometry :	30 - 70%	40 - 80%



**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. BASECOAT F16 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.

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**Materiel**

Pressure pot  
 Gun : IWATA WS200SP / WS200FT / W200G2P  
 Nozzle + Needle: 1.0mm to 1.4mm  
 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



**Name of  
lying down**






Apply in 2 to 3 layers a wet film of 45 to 60µm.  
 The layers must be closed and homogeneous (values given for a 50% dilution may vary depending on the colors).



**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 :		
	<b>Time to Drying</b> (at 23°C – 40 to 60% RH)	Drying time given for 30µm dry with 50% of MEDIUM F16 thinner:		
		Temperature	Dry to the touch	Masking
		10°C	NC	NC
		20°C	1 hour	3 hours
		30°C	1/2 hour	1 hour
	<b>Recovery (at 23°C – 40 to 60% RH)</b>	Coverage by 360 UVR for 30µm dry with 50% thinner MEDIUM F16 :		
		Temperature	Minimum	Maximum
		10°C	NC	NC
		20°C	1 hour	6 hours
		30°C	30 minutes	NC
	<b>YIELD</b> THEORETICALLY	4.5 to 8 m <sup>2</sup> /kg or 3.8 to 5.5 m <sup>2</sup> /l (without loss, depends on shades)		
	<b>Dry extract in Volume you Mixed</b>	Base: 17-21% Gew – depending on shades Hardener: 51%		
	<b>Density of Mix at 20°C</b>	Metallic: 0.922 to 1 - Pastel colors: 1 to 1.3		
	<b>Compounds organic Volatiles</b>	Base : 735 g/l Hardener: 506 g/l		

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**ASPECT**  
(at 60°)

MATT 0-10GU\*  
\*GU= GLOSS UNIT



**Colors**

According to the MAP YACHTING, RAL, AFNOR, NCS color charts, or other colors on request. (Consult us)



**Flash point**

Base : Closed cup: 25°C  
Hardener: Closed cup: 24°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 BASECOAT F16 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:**