

BIOTANK

Technical sheet no. 36

Editing September 2022

TYPE OF PRODUCT :

SOLVANT-FREE EPOXY FINISH FOR DRINKING WATER STORAGE

PROPERTIES :

BIOTANK is a solvent-free epoxy paint, low viscosity and strong gel recovery, allowing the application of thick, inert, abrasion-resistant layers, suitable for contact with drinking water.

Grades :

The properties of the coating, apart from its appearance, are not affected by actinic radiation.

It is the user's responsibility to ensure that the foodstuffs he stores are in no way affected by contact with the coating.

Applications on concrete*, steel, epoxy composite laminates, on aluminum properly primed with EPOXY PRIMER EP 211.

Maintenance and repair of drinking water tanks for boats.

Protection of any structural element related to the storage and distribution of drinking water.

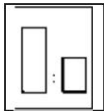
Do not use for hot water tanks above 50°C. *Consult us.



Information
Products

COMPONENTS:

SOLVENT FREE



Hardeners
Thinners

BIOTANK HARDENER

SPECIFICATIONS :



Standards and
Qualifications

MAP YACHTING *Paint Systems* SPEC

HEALTH COMPLIANCE CERTIFICATE (ACS) N° 20 MAT LY 053

Expiration August 2025

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, dust or mold and cleaned.

Steel: all sheet metal work will be completed before the start of surface preparation work.

Excess welds will be eliminated, sharp edges rounded off.

Eliminate oils and greases, alkaline deposits and soluble salts.

Abrasive blast (according to ISO 8501.1-1988) to degree Sa 2.5 roughness BN 10a of Rugotest n°3 (Ra 12.5 μm).

Dust carefully with a vacuum cleaner.

Aluminium: directly on the primer EPOXY PRIMER EP 211 after the recommended covering time*

Composites: on sanded composites or raw surface of delamination fabric (possible on polyester* and vinyl ester* classified as food, perfectly polymerized and solvent-free).

For any other type of coating, and for surface preparation of aluminium, zinc, galvanized or any previously painted support, consult our technical department.

*Consult us

Manual



Mixing ratio

Volume (ml): **100** Base / **40** Hardener

Weight (gr) : **100 (gr) Base 23 (gr) Hardener**



Duration drying

None



Viscosity initial of application (at 23°C)

Thick thixotropic product



Remark

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Shelf life of the mixture at 20°C

3h at 10°C
1h30 at 20°C
1 hour at 30°C



Remark

It is advisable to check the viscosity of the Base + Hardener mixture, if the system thickens, do not use it any more and prepare a new mixture.



Dry film thickness

RECOMMENDED THICKNESS PER LAYER:
From 300μm to 400μm maximum at 20°C

Applications & Recommendations



Conditions

Hardeners : **BIOTANK HARDENER**

Temperature: 15°C– 30°C

Hygrometry : 30% – 70%



Note

The quality of application of all coatings will be influenced by the application equipment chosen and by the temperature, humidity and shape of the application area. When first applying the product, it is recommended that test panels be prepared to identify the best application settings to use to optimize system performance and appearance. BIOTANK cannot 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 media when environmental conditions are outside of the recommended range.



Remark

Optimal application conditions are 20°C to 25°C for 30% to 70% relative humidity.

Reactivity of the mixture for 500 g at 30°C with Hardener: + - 30 minutes.

Commissioning: 14 days at 10°C

7 days at 20°C

5 days at 30°C

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Materiel

Long hair roller application 12mm to 15mm



**Name of
lying down**

2 coats of 300 μ m dry to 450 μ m dry



**Cleaning the
material**

To clean the tools, use cleaning thinner or epoxy thinner EP N°17 or EP N°3.

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Physical properties

LIMIT TEMPERATURE FOR USE : max. +100 °C
Dry temperature: maxi 50°C in immersion



Time to Drying
(at 23°C
– 40 to 60% RH)

Drying time given for 300µm dry:

Temperature	Dry to the touch	Dry hard
10°C	20 hours	30 hours
20°C	12 hours	20 hours
30°C	7 hours	10 hours

Recovery (at 23°C – 40 to 60% RH)

Temperature	Minimum	Maximum
10°C	36 hours	6 days 48 hours
20°C	24 hours 12 hours	24 hours
30°C	hours	hours



YIELD
THEORETICALLY

3.3 to 1.1 m² /kg for 200 to 600µm dry
0.4 litres/m² for 600µm dry



Dry extract in Volume you Mixed

97.0 +/-3%

Density of Mix at 20°C

1.50+/-0.05 g/cm³



Compounds organic Volatiles

EU limit value for this product (cat. A/d): 500 g/l (2010) This product contains a maximum of 5 g/l of VOC

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ASPECT

(at 60°)

Bright



Colors

Egg shell



Flash point

Base: 60°C < PE <= 93°C Hardener: PE > 100°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 base, 24 months for the hardener. In tropical conditions, contact us.

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:**