

# CHEMITANK 291

Technical sheet no. 38

Editing September 2022

TYPE OF PRODUCT :

FINISHING PHENOLIC EPOXY FOR STORAGE OF GASOLINE OR LEAD-FREE HYDROCARBONS

## PROPERTIES :



Information  
Products

CHEMITANK 291 is a high solids epoxy phenolic system in solvent phase which provides excellent protection of storage tanks for:

- aqueous solutions of acids,
- organic and mineral alkalis,
- organic solvents,
- and petroleum derivatives products resulting from organic synthesis.

The CHEMITANK 291 provides excellent protection of various materials, such as steel, composites... For any other support, consult our technical department.

Note: Certain chemical compounds can cause discoloration of the film, without this affecting the general performance of the product.

The film properties of CHEMITANK 291, apart from its appearance, are not affected by actinic radiation. CHEMITANK 291 must be applied in 3 coats of 100  $\mu\text{m}$  dry per coat alternating white and red brown coats. CHEMITANK 291 provides excellent interior protection for fuel tanks with or without lead, or in a mixture with ethanol up to 50% for:

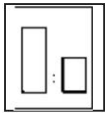
- Passenger aircraft and ULM,
- Pleasure boats,
- Motorcycles and cars.

CHEMITANK 291 can be applied on:

- Epoxy composite laminates .
- Properly primed polyester composite laminates.
- Directly on abrasive blasted steel (see steel preparation on reverse).

CHEMITANK 291 is intended for the interior protection of tanks, tanks, retention tanks, etc.

## COMPONENTS:



Hardeners  
Thinners

CHEMITANK 291 HARDENER

EP N° 17 thinners if needed

DILUTIONS:

BRUSHES AND ROLLS from 3% to 5%

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](mailto: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](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.

# CHEMITANK 291

## Surface Preparation



All the surfaces to be covered must be free of dirt, pollution due to grease, water vapour, (the temperature of the support must be at least 3°C above the dew point – (consult the board), dust or mold.

CHEMITANK 291 should be applied over a compatible system or over clean blasted steel to Steel Structures Painting Council SP10 or Swedish Standard Sa 2.5.

The minimum configuration of the steel surface after sandblasting should be 14µm in depth and slightly rough in nature. Surfaces must be free of sanding dust.

On composites, the surface must be degreased with methylated spirit then sanded with 80/120 grit and completely dusted before applying the coating. Polyester composite laminates must be properly primed with EP 211. Do not use acetone for degreasing.

CHEMITANK 291 is compatible with EP 211 systems, epoxy laminates and epoxy fillers MIX FILL 10 and 27 and 100, GREENFILL 80.

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

## Manual



### Mixing ratio

Volume(ml): **90** Base / **10** 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**

3 hours at 20°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 COAT:

From 50μm minimum to 70μm maximum

## Applications & Recommendations



**Conditions**

**Hardeners :**

CHEMITANK 291 HARDENER

CHEMITANK 291 HARDENER

Temperature: 15°C – 23°C

25°C – 30°C

Hygrometry : 50% – 70%

30% – 80%



**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. CHEMITANK 291 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**

Optimum application conditions are 18°C to 23°C for 50% to 70% relative humidity.  
 Commissioning: 10°C = 14 days / 20°C = 7 days / 30°C = 5 days  
 The product is delivered in pre-dosed kits.  
 Pour the hardener part into the base container and mix, taking care not to incorporate air. The recommended temperature of the mixture must be at least 10°C, otherwise it may be necessary to add thinner to obtain the application viscosity.  
 Attention, an excess of diluent can lead to a phenomenon of dripping.

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## Materiel

Pressure pot  
 Pistol : AZ1  
 Nozzle + Needle: 2.5mm to  
 3.5mm Paint flow: 170 - 280 ml/min  
 Air cap:  
 Gun pressure: 2.5 - 3.0 Bars  
 Fluid pressure: 1.5-2 Bars  
 Gravity gun  
 Pistol : AZ3  
 Nozzle + Needle: 2.5 mm to 3.5mm  
 Paint flow: 140 - 250 ml/min  
 Air cap: LV2 / BA4-1 / WB1 / WBX  
 Gun pressure: 1.8 – 2.5 Bars  
 Airless  
 Nozzle : 0.017-0.019mm  
 Pressure : 100 - 200 Bars  
 Minimum pump ratio: 45/1  
 Brushes or Rollers  
 Long hair roller application 12mm to 15mm



## Name of lying down

2 coats of 150 $\mu$ m dry to 170 $\mu$ m dry  
 RECOMMENDED TOTAL THICKNESS: 300 $\mu$ m dry







## Cleaning the material

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

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Physical properties		USE LIMIT TEMPERATURE :		NC
	<b>Time to Drying</b> (at 23°C – 40 to 60% RH)	Drying time given for 100µm dry:		
		Temperature	Dry to the touch	Dry hard
		10°C	15 hours	20heures
		20°C	8 hours	10 hours
		30°C	2 hours 30 minutes	4 hours
	<b>Recovery (at 23°C – 40 to 60% RH)</b>	Temperature	Minimum	Maximum
		10°C	24 hours	90 days
		20°C	12 hours	60 days
		30°C	6 hours	30 days
	<b>YIELD</b> THEORETICALLY	7 m²/l for 100 µm		
	<b>Dry extract in Volume you Mixed</b>	75,0 +/- 3%		
	<b>Density of Mix at 20°C</b>	1,70 +/- 0,05 g/cm³		
	<b>Compounds organic Volatiles</b>	EU limit value for this product (cat. A/i): 500 g/l (2010) This product contains a maximum of 440 g/l VOC		

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# CHEMITANK 291



**ASPECT**  
(at 60°)

Matt



**Colors**

Beige or Red Brown



**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 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:**

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Zone Athelia IV-296 Avenue de la Tramontane-13705 LA CIOTAT CEDEX – France