



ECO FRIENDLY
SUSTAINABLE
BIODEGRADABLE



VBCI Series- A class of environmentally friendly corrosion inhibitors for a cleaner, greener, better tomorrow.

VBCI Coatings

Vapro VBCI 804-VF

Biobased VOC Free Ballast Tank Coating

Passed German VIA (Vapour Inhibition Ability) Test TL 8135-002

**Conforms to Military Specification MIL-R-21006 (SHIPS),
Conforms to USDA Biobased Certified Product
Conforms OECD 301F Biodegradability Test and
OECD 201 IC 50 (0-72 hours) Toxicity Test
NATO STOCK NUMBER: 6850-32-076-1614**

Description

VAPPRO VBCI 804-VF is a biobased tan viscous liquid rust preventive coating developed to provide maximum protection for ferrous metal surfaces of ballast tanks.

VAPPRO VBCI 804-VF is composed of plant-based oils combined, metal wetting agents and fortified with Vapro VBCI rust inhibitors.

The unique formulation in VAPPRO VBCI-804-VF enables it to wet metal in the presence of water and its' vapor inhibition ability penetrates into rust and scale to reach and provide protection to the base metal underneath, the coating formed is durable and resistant to water

VAPPRO VBCI 804-VF is recommended for the arrest and prevention of rust in ships' ballast tanks, voids, cofferdams, chain lockers, barge brakes and other equipment where spraying, painting and flotation methods are used.



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Features & Benefits

- Conforms to Military Specification MIL-R-21006 (SHIPS)
- Conforms to USDA Biobased Certified Product
- Conforms OECD 301F Biodegradability Test and OECD 201 IC 50 (0-72 hours) Toxicity Test
- Heat resistant up to 500°C
- Non-melt coating
- Nitrite Free
- VOC Free
- Biodegradable
- Biobased
- Does not contain any heavy metals
- Passed German VIA (Vapor Inhibition Ability) Test TL 8135-002

Outstanding rust protection:

- Passed the ASTM salt water rust test (D665B).
- Military Specification MIL-R-21006 (SHIPS) Resists water washing Long service life: the protective film does not dry out, harden, crack or peel

Performance Qualities

Outstanding rust protection has been proven by extensive field experience around the world.

VAPPRO VBCI 804-VF conforms to the ASTM salt water rust test (D665B) and the simulated ballast tank test and salt spray test required for US. military specification MIL-R-21006 (SHIPS).

VAPPRO VBCI 804-VF is the ultimate chemical for mothballing refineries, power plants, ships and rigs.



Applications

VAPPRO VBCI 804-VF may be applied by spraying or brushing or, since it is lighter than water, by the flotation method.

It has also proven satisfactory for the inside surface protection of propeller hubs and rudder voids.

The preparation required before VAPPRO VBCI 804-VF is applied is minimal. If corrosion is severe or silting is heavy, it is recommended that the loose scale or silt be removed with high pressure water hoses. Any debris in the bottoms of tanks or voids, should also be removed.

After preparation, the recommended amount of VAPPRO VBCI 804-VF should be poured into the compartment and the water level raised and lowered to permit the VAPPRO VBCI 804-VF to coat the tank.

It can be applied over wet surface as it penetrates existing rust and scale to eliminate the need for extensive surface preparation prior to application of VAPPRO VBCI 804-VF.

The quantity of VAPPRO VBCI 804-VF required can be ascertained by the use of the fact that the required thickness of the floating layer of VAPPRO VBCI 804-VF is a function of the height of the tank.

On the basis of experience, it has been determined that tanks of the following heights require floating layers of VAPPRO VBCI 804-VF on the following thicknesses:

TANK HEIGHT (METRES)	FLOATING LAYER THICKNESS (MM)
0 - 0.5	5
0.5 - 1.0	6.5
1.0 - 1.5	8
1.5 - 3.0	9.5
3.0 - 4.5	11.5
4.5 - 6.0	12.5
6.0 - 7.5	14.5
7.5 - 9.0	16
9.0 - 10.5	17.5
10.5 - 12.0	19
12.0 - 13.5	20.5
13.5 - 15.0	22

VAPPRO VBCI 804-VF should not be used in tanks intended for edible oils or drinking water or on surfaces where people are likely to walk.

The following formula can be used to determine the quantity of VAPPRO VBCI 804-VF in litres, required to adequately coat and protect the interior of any given tank or void space where the length, width and height are known:

Litres required = L x W x FT
where L = length in metres,
W = width in metres and
FT = film thickness in millimetres (from table above)

Where heavy accumulations of rust or scale are present, it is recommended that the estimated quantity of VAPPRO VBCI 804-VF should be increased by 10%.



Specifications

Appearance

Free Flowing Liquid

Colour

Tan Brown

Viscosity

154 mPas.S

Flash Point

220°C (Open Cup)

Odour

Mild

Available Packaging

200 liters per steel drum



Formulated from environmentally-friendly and biodegradable raw materials, Magna's cleaning and maintenance products are optimal performers. However, unlike other chemical solutions, our products are developed with both the customer and the environment in mind. We integrate the latest technology and innovations into our products which enable them to perform in a vast array of applications and environments.

Magna is a leading manufacturer of environmentally friendly corrosion products developer of cleaning and maintenance solutions and has a line of over 100 cleaning and maintenance chemicals which include water treatment, aerosol products, fuel treatment, disinfectants and sanitisers. Armed forces in the NAFTA region, Asia-Pacific and Europe have incorporated our products to keep their equipment in high performance mode.

Our products are listed on the NATO Master Cross Reference List (MCRL) and are distributed internationally by distributors in over 30 countries.

Magna

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