



VAPPRO VCI-804 BALLAST COAT

NATO STOCK NUMBER:

6850-32-076-1614

**CONFORMS TO Military specification
MIL-R-21006 (SHIPS)**

DESCRIPTION

VAPPRO VCI-804 is a dark, liquid rust preventive material designed to provide effective protection for ferrous metal surfaces. VAPPRO VCI-804 is composed of petroleum oils combined with metal wetting agents and V.C.I. rust inhibitors. The compound in VAPPRO VCI-804 enables it to wet metal in the presence of water and penetrate rust and scale to reach and provide protection to the base metal underneath. The coating formed is durable and resistant to removal by water washing.

VAPPRO VCI-804 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.

APPLICATION

VAPPRO VCI-804 may be applied by spraying or brushing or, since it is lighter than water, by the flotation method. VAPPRO VCI-804 is recommended for the arrest and prevention of rust in ships' ballast tanks, voids, cofferdams and chain lockers, barge rakes, dry-dock ballast tanks and other such equipment where application by flotation or spraying is practical. It has also proven satisfactory for the inside surface protection of propeller hubs and rudder voids.

The preparation required before VAPPRO VCI-804 is applied is minimal. If rusting 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 VCI-804 should be poured into the compartment and the water level raised and lowered to permit the VAPPRO VCI-804 to coat the metal surfaces.

Four passes (i.e. two fillings of the compartment with water) are usually recommended. Care should be exercised as the water level approaches the bottom to prevent vortexing at the drain and pumping part of the VAPPRO VCI-804 overboard. After flotation, overhead surfaces and air pockets that may not have been reached by flotation should be coated by spraying. Spray application can be accomplished with any type of paint spray equipment.

FEATURES

- Can be applied over wet surface
- Penetrates existing rust and scale to eliminate the need for extensive surface preparation prior to application of VAPPRO VCI-804
- Outstanding rust protection:
 - a) Passed the ASTM salt water rust test (D665B).
 - b) 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 VCI-804 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 VCI-804 is the ultimate chemical for mothballing refineries, power plants, ships and rigs.





APPLICATION

A calculation can be made of the quantity of VAPPRO VCI-804 required by use of the fact that the required thickness of the floating layer of VAPPRO VCI-804 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 VCI-804 of 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

In small tanks of heights 1.5 to 6 metres, approximately 200 litres should be provided for each 100 kilolitres of capacity. In large tanks of heights from 7.5 to 15 metres, approximately 300 - 400 litres should be provided for each 100 kilolitres of capacity. When spraying interiors with VAPPRO VCI-804, 1 litre should be provided for each 3.0 to 4.0 square metres of area.

CAUTION

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

AVAILABLE PACKAGING

200 Liters Drum

The following formula can be used to determine the quantity of VAPPRO VCI-804, 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:

$$\text{Litres required} = L \times W \times FT$$

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 VCI-804 should be increased by 10%.

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