

M-645

DESCRIPTION

M-645 is a float coat used to inhibit corrosion in vessels containing saltwater or brine. It floats on the surface of the water, forming a self-healing protective film on adjacent metals. The film displaces water containing chlorides from the surface of the vessel. As the water is raised or lowered, M-645 coats every square inch of the vessel's interior—including ring stiffeners, girders, piping, and side shells—with a sufficient amount of product to protect against corrosion.

M-645 is ideal for ballast tanks that are frequently emptied and refilled. Because M-645 floats on the surface of the water, the non-aqueous formula does not contaminate ballast water, allowing for normal discharge procedures. It is also an effective corrosion inhibitor for hydrotesting large aboveground storage tanks (ASTs).

UFI: SWA0-409N-600K-P6VE

PACKAGING & STORAGE

M-645 is available in 5-gallon (19 L) pails, 55-gallon (208 L) metal drums, liquid totes, and bulk.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years

VpCI® ADDITIVES FOR WATER TREATMENT



FEATURES

- Non-hazardous
- Non-flammable
- Self-reapplying
- Not water-miscible

BENEFITS

- Provides corrosion protection for a broad range of saltwater/brine applications
- Extends ballast tank life, minimizing costs for dry docking repairs
- Does not interfere with ballast water discharge
- Effective for multiple tank refills

APPLICATION

Due to the uniqueness and complexity of float coat applications, please contact Cortec® for recommendations on your specific use. Typical applications include

- Hydrostatic testing of pipelines, vessels, and ASTs
- Seawater ballasting of ships, buoys, and oil rigs

METALS PROTECTED

- Carbon Steel
- Steel Alloys

TYPICAL PROPERTIES

Appearance	Clear brown to amber liquid
Density	7.5-7.7 lb/gal (0.90-0.92 kg/L)
Flash Point	201 °F (94 °C)
Viscosity	33.33 cSt at 104 °F (40 °C)

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Dosing & Coverage Rate

M-645 is dosed based on the surface area and geometry of the treated space. The amount of M-645 required is based on the cross-sectional area and tank surface area:

- 13 gallons per 100 square feet (55 L / 10 m²) of cross-sectional area (7.7 ft²/gallon [0.19 m²/L])
- 0.12 gallons per 100 square feet (0.5 L / 10 m²) of tank surface area (830 ft²/gallon [20.37 m²/L])

Please contact Cortec® Technical Service for additional details on application and dosing.

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