



MRST[®] Molecular Reaction Surface Technology

VAPPRO VCI-887 MAGTAN RUST CONVERTOR

NATO STOCK NUMBER:
6850-32-076-1181

DESCRIPTION

VAPPRO VCI-887 MAGTAN is an unpigmented primer that stabilizes firm rust by conversion to a more stable form of iron using Magna's state-of-the-art Molecular Reaction Surface Technology (MRST). The conversion process is accompanied by a dramatic color change from a milky white to black.

THEORY BEHIND VAPPRO VCI-887 MAGTAN

Newly formed rust is chemically ferric hydroxide (Fe(OH)₃) or iron, which has reacted with oxygen (air) and moisture. Iron can combine with oxygen to form a variety of oxides depending on conditions of exposure. One of these oxides is magnetic oxide or ferrosferric oxide (Fe₃O₄), a stable compound, which does not readily change as exposure conditions change. This stability is the basis for the protection. VAPPRO VCI-887 MAGTAN oxidizes ferric hydroxide to form an organic ferrosferric complex which is similar to magnetite (magnetic oxide). When incorporated into a coating system, the chemical reaction of VAPPRO 887 MAGTAN is maintained.

AREAS OF USE

Because non-toxic VAPPRO VCI-887 MAGTAN is so versatile in the method of application it can be used in every industry. Automobile manufacturing repair and, maintenance, aviation, chemical and petro-chemical, marine, mining, general and specialist engineering works, structural and civil engineering, water works, painting contractors, garages, building industry, transport and offshore etc. VAPPRO VCI-887 MAGTAN is acidic, avoid contact with skin, eye and clothing. Avoid inhalation of fumes. Keep away from food and children.





SURFACE PREPARATION

- Remove dirt, flake rust, wipe clean.
- Scrape off old, scaly paint, lacquers.
- If there are acids, lye or such on surface, wash off with water.
- Degrease oily surface before application of VAPPRO VCI-887 MAGTAN.

METHOD OF APPLICATION

- Shake or stir VAPPRO VCI-887 MAGTAN well, before use.
- Apply via brush, spray gun to surface.
- Allow 15-30 minutes drying time between coats.
- Apply second coat where necessary.
- Surfaces warmer than 40°C should be cooled with water before application.
- If spraying: high pressure 2-4 ATU with nozzle 0.8-1.0 mm airless nozzle 0.8-1.0 mm

After 15-30 minutes, the coated area should show a deep black color and be slightly shiny. In case of no gloss, add another thin coat. After 12-24 hours, coated surface can be painted- even lacquers can be used- any type of paint can be used. In case of water-based paints, cover coated surfaces with an epoxy sealant.

PRODUCT SPECIFICATIONS

Color

White

Clarity

Emulsion Liquid

Viscosity

Free Flowing

Drying Time

Touch Dry In 15 Minutes

Coverage

10 to 12 sq. meter per liter @ 2mil(50 microns) thickness

Specific Gravity

Approximately 1.2

AVAILABLE PACKAGING

20 Liters Pail / 200 Liters Drum

Magna

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