



# VAPPRO VCI-INSULKOTE

## HEAT-RESISTANT COATING FOR STEAM PIPES AND STEAM OPERATED EQUIPMENT

**NATO STOCK NUMBER:**  
8030-320805417

### DESCRIPTION

Vapro VCI-Insulkote is viscous brown heat resistant coating, specially developed to protect deck steam pipes, steam operated equipment and windlass steam chest from corrosion on ocean going vessels and refineries.

It is a solvent-free vegetable oil based coating that is environmental friendly, non-polluting and is harmless to users.

Vapro VCI-Insulkote withstands higher temperatures for longer periods than any other similar products and drastically reduces repair and maintenance cost.

It is listed in the NATO MCRL (Master Cross Reference List) with assigned NATO Stock Number: 8030-320805417

### FEATURES

- Non-flammable
- Environmental friendly and Non-polluting
- Excellent water resistant
- Good water displacement properties
- Heat Resistant
- U.V. Resistant
- Ease of application
- Listed in NATO MCRL
- Contains no solvents
- Excellent corrosion inhibition properties

### APPLICATIONS

- Steam pipe lines
- Steam operated equipment
- High temperature structure



## DIRECTION FOR USE

### Surface Preparation

- 1) Remove scale, loose rust, flake rust and other foreign matters by means of brushing and scrapping.
- 2) Ensure surface is dry and clean.

### The First Coating

- 1) Apply 2 – 3mm thickness of Vapro VCI-Insulkote on steam pipes by means of a spatula under ambient temperature. Vapro VCI-Insulkote should be applied to surfaces with normal temperature.
- 2) Allow a minimum 48 hours drying time and check coating by set-to-touch test to ascertain the drying condition of the surface.
- 3) Ensure no air bubble is trapped in the coating film.
- 4) Do not apply heat to speed up the drying time of Vapro VCI-Insulkote.

### Fiber Glass Tape

- 1) Wrap the surface of coating with fiber glass tape with a minimum overlapping ratio of 20% up to 30% according to the dimension of pipe and the glass fiber tape size.

#### Glass Fiber Tape Overlapping Ratios

Pipe Diameter	Fiber Glass Tape Size	Overlapping
25	0.32t x 24mesh x 50mm	30%
40 – 65	0.32 x 24 mesh x 100mm	25%
80 – 250	0.32t x 24mesh x 150mm	20%

### The Second Coating

Immediately after wrapping of fiber glass tape, apply 2mm thick of the second coat of Vapro VCI-Insulkote over the fiber glass tape and allow up to 48 hours of drying time is required.

### Quality Check For Coating

- 1) After 48 hours of drying time, run steam through the pipes and check blistered holes, remove the air by pressing the blistered hole.
- 2) Apply additional Vapro VCI-Insulkote if required thickness is not obtained.

### Corrective Measures

By means of a putty knife, scrap off the damaged film and touch up the damaged parts of the Vapro VCI-Insulkote coating, ensure to overlapping more than 10mm.

Required tape length can be figured out by the following formula :

$$\frac{\text{O. Dia. of pipe (mm)} \times 3.14 \times \text{length of pipe (m)}}{\text{Tape width (mm)} - \text{Overlap width (mm)}} \times 1.1$$

### Warnings

- 1) Allow a minimum of 48 hours of drying time for Vapro VCI-Insulkote before putting into service.
- 2) Ensure no contamination and bubbling on coating.
- 3) Even after 48 hours, avoid mechanical impact, as the underneath of the Vapro VCI-Insulkote is still wet.

## SPECIFICATIONS

ASTM Drop Point  
Non-melt

Water Soluble  
Water proof

Water Resistance  
Excellent

Flash Point  
Non-flammable

Viscosity base SUS @210 Degree F  
4800

Operating Temperature Range  
-30 to 2100 Degree F

Color  
Brown

Drop Point  
No dropping point

Metallic Content  
No lead or copper

## AVAILABLE PACKAGING

16kg pail



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