

# Vappro VBCI RAD-PRO Radar Anti-Corrosion Gel

Protects Radar Equipment, Electrical Motors, Connectors, Shafts, Junction Boxes, and Rubber Parts Against Corrosion and Degeneration During Mothballing, Storage, Shipment and operational use.

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

## Introduction

Many factors will affect the performance of a radar system, including transmitter power, receiver sensitivity, signal-to-noise ratios, the shape of the beam itself, pulse repetition frequency and pulse width. Add to the fragile nature of the components the fact that, different of forms corrosion that may cause many avionics technicians shudder at the thought of troubleshooting a radar system.

Corrosion in connectors is a big problem, it causes a whole variety of intermittent problems. Telltale signs of corrosion or worn wires at or around the connectors, electrical connectors, and bulkhead connectors are commonly found during trouble shooting of radar system.

Perhaps, the most overlooked part of any radar troubleshooting process often is the radome. While radomes normally are passive parts of the radar system, damage, erosion and water ingression can make them "active" participants in many reoccurring problems.

Usually, a combination of paint damage or static damage, anything that leaves holes in the paint will lead to moisture ingression, and leads to filiform corrosion and crevice corrosion.

That moisture will also literally drill through the composite structure of a radome. When enough moisture gets in there, the radar can go 'blinky.' If you get enough moisture trapped in there, it will show up as a spot on the display. Trapped moisture will also lead to a 'freezethaw' cycle. That will not only cause considerable damage to the radome's structure, the ice trapped in there at 25,000 to 35.000 feet also causes problems for the radar.

In view of the above Vappro VBCI Rad-Pro Radar Anti-Corrosion Gel was developed to combat corrosion commonly in Radar system.





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

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### Description

Vappro VBCI Rad-Pro is a water repelling, non-melting, and lubricating dielectric translucent gel that provides superior anticorrosion properties and arcing resistance. Voltage arcing can be prevented due to its excellent dielectric properties. Its hydrophobic nature makes Vappro VBCI Rad-Pro an excellent water repellent gel, hence it provides excellent oxidation resistance for contacts and relays in electrical equipment.

An excellent anti-corrosion product to protect radar equipment and its auxiliary parts against corrosion especially in marine environment. A panacea against corrosion for different types of radar systems such as Bistatic radar, Continuous wave radar. Doppler radar. Monopulse radar, Passive radar, Instrumentation radar, Weather radars and Mapping radar.

#### For more detailed information, please email to nelsoncheng@vapprovbci.com or info@vapprovbci.com



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