

## VACTAN Rust Converter

VACTAN is a complex mixture of a vinyl acrylic copolymer and tannic acid for the treatment of corroded steel and iron surfaces. VACTAN neutralises the corrosion process by converting the rust into a blue-black metallo-organic complex which passivates the surface. It then further protects the surface by forming a film with low permeability to water vapour and oxygen. VACTAN is self priming but for long term protection it is advisable to overcoat with a suitable water or solvent base midcoat or topcoat. One litre of VACTAN can treat 8-9 square metres

### Application

Surfaces should be wire brushed to remove loose rust and it is preferable to remove soluble salts by washing with water as they inhibit the conversion process. Surfaces should also be oil and grease free. VACTAN has been designed for application by spray and brush. By airless spray a dry film thickness of up to 60 microns can be achieved without sagging. The addition of further water may be necessary for air assisted spraying. By brush application, a dry film thickness of 40 microns per coat is considered optimum.

VACTAN can be applied over damp surfaces and dries quickly under suitable temperature and humidity conditions. Immediately after use equipment should be washed in water to remove all traces of VACTAN.

### Drying Conditions

Temperature, humidity, air movement and film thickness all affect the time to reach the touch dry stage. Under ideal conditions a 100 micron wet film of VACTAN will be touch dry in approximately 10 minutes at 20°C, whereas at 10°C and with little air movement this time can be as long as 2 hours. VACTAN should not be applied at temperatures below 10°C, or when there is risk of condensation or rain during this drying period.

VACTAN can be used in the following areas:

Manufacturing, Agriculture, Automotive, Local Authority, Road Haulage, Chemical, Marine, Heavy Engineering, Building and Construction, DIY, etc.

### Overcoating

VACTAN may be coated when cured with any conventional paint using brush, roller or spray. Test pieces have been overcoated with one coat of 2-pack polyurethane acrylic, applied by spraying.

VACTAN has been tested and certified as fit for use for the use for the carriage of grain and use in potable water systems. It may also be used in sensitive foodstuff areas.

### Storage

Store in a cool place. Do not allow to freeze. Use within 12 months.

### Health & Safety

VACTAN is non-flammable and can be regarded as essentially non-hazardous under normal use. During use gloves should be worn as VACTAN will stain the skin. Stains can be removed by first washing with diluted bleach then plenty of soap and water.

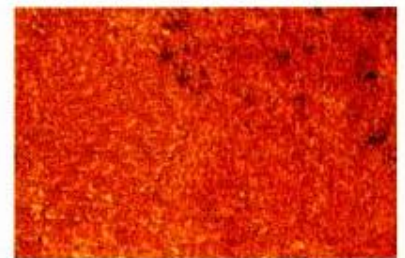
VACTAN should NOT be swallowed. If swallowed wash out mouth with plenty of water and then drink plenty of milk or water. SEEK MEDICAL ATTENTION IMMEDIATELY.

KEEP OUT OF THE REACH OF CHILDREN.

VACTAN may cause slight eye irritation and should it come into contact with eyes, washing with water is recommended.

SHOULD IRRITATION PERSIST SEE DOCTOR.

*Rusty Surface*



*After Vactan Application*



*Overcoated Surface*



Extract from Report No. 2849/149/86 issued by the  
Occupational Hygiene Unit of the North of England Industrial Health Service.  
A request was made to carry out this test -

" in order to assess, from the toxicity standpoint, its suitability for use as an interior coating for the holds of ships employed in the transport of grain.

SUMMARY AND RECOMMENDATIONS

VACTAN paint system has been tested in order to determine whether toxic constituents are likely to contaminate cargoes when this product is used as an interior surface coating for the storage holds of ships.

The results of the tests indicate that when the system is applied as recommended, there is no likelihood of dry cargo contamination"

Extract from a report on rust converting chemicals. Trial Conducted by Ministry of Defence. Dated 23.4.87

Vactan showed a time saving of 25% over the Trustan and 40% over a similar competitive product due to there being no need to wash down before painting or any need for a priming coat before the undercoat and finish coat.

Sample test plates from a single sheet of rusted steel were prepared, using all three products without any supplementary paint coatings and left outside for 12 weeks over the Winter period. At the end of the test period, surface rust had appeared on the plates treated with Trustan and the other coating, but up to the present, 20 weeks after application, no rust has appeared on the surface treated with Vactan.

RECOMMENDATION. That Vactan now become the specified product as the rust treatment for use on general Army equipment prior to painting, since it is excellent for both large areas and spot treatment.

Extract from Newsletter of **The Fleet Maintenance Support Branch**  
**Norfolk Naval Shipyard**  
**(US Navy)**

The environmental forces at work aboard submarines often cause maintenance problems. One such problem is the development of rust on piping, components, and support structures. Painting while underway is not allowed on submarines due to atmosphere control requirements. VACTAN is a rust converter that is authorized for use on submarines while UNDERWAY..... NAVSEA 389-0317 (Procedures for Maintenance and Repair, Sections 22) and NAVSEA 6310-081-015, (Submarine Preservation Maintenance Standard) authorize the use of a rust converter, VACTAN..... Specific guidance is given on the amount that can be applied in one day, temperature limitations, and limit for on board allowance. .... NAVSEA MSG DTG 171201 OCT 02 provides additional information.

I used Vactan on the rear under chassis of my old Peugeot 205 from 1990.  
I applied it in August and had a quick dive underneath the car earlier this week (November 2006).  
Looks great. Every area is still covered in a black plastic-like coat with no sign of flaking-off.  
A good product, inexpensive, extremely simple to use and yet effective. Because some parts were awkward to reach (I only used a brush), I eventually touched brake pipes and the plastic outer sleeve of the hand-brake cables. 5 months later, these areas/parts show no sign of damage whatsoever. So it seems that Vactan is hard against rust and harmless against the rest.  
Definitely recommended.

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