

Tyre Treat

Tyre & Rim Sealant and Corrosion Inhibitor

APPLIED A4111

Description:

Tyre Treat is designed as a one shot product to improve tyre sealing and inhibit corrosion on rims.

Intended Use:

Tyre Treat can be used in all applications where a corrosion inhibitor and sealing agent is required, however it is especially designed for use in large tubeless tyres found in the mining industry.

Product features:

Contains a vivid dye and frothing agent ... for fast easy detection of leaks.

Contains corrosion inhibitors ... Prevents rim corrosion.

Contains a sealing agent ... Provides a soft seal between tyre and rim to prevent bonding of these surfaces.

Classified as non-hazardous ... safe to handle and use.

Typical Physical Properties:

Technical data should be considered representative or typical only and should not be used for specification purposes.

Appearance: Low viscosity, transparent, purple liquid
Odour: Extremely low odour
pH (Concentrate): 9.2

TENSILE INFORMATION:

Independent laboratory tests were conducted to quantify the effects of **Tyre Treat** on rubber liners in tubeless tyres.

- The tests were conducted to comply with ASTM D412 using rubber liners with cure 20/150C.
- Twelve test strips with the same specifications were selected for the test. Three test strips were used in the test to ensure consistency in the results.
- The following table shows the mean (average) in each test category.

	Immersion Time	Hardness (Shore A)	Stress at Break (MPa)	Strain at Break (%)
Control Strip	n.a.	55.00	11.14	816.0
Immersed in Tyre Treat	6 weeks	50.00	11.11	779.3
Immersed in Tyre Treat	7 months	50.00	10.49	744.8
Immersed in water	5 months	49.00	9.185	736.7

Temperature in all tests was 40°C.

Summary: The results show that **Tyre Treat** has less effect on rubber than water.

CORROSION TESTING:

Laboratory tests were performed to determine the corrosion inhibiting properties of **Tyre Treat**.

Laboratory Test	Coupon Test	Time Period	Temperature	Results Expressed as mil per year
General Corrosion	Mild Steel	180 Days	38C	< 0.1 mpy

Industry standards suggest that corrosion rates of <1.0 mpy are manageable and will allow plant to reach designed operating life.

Summary: The results clearly indicate that **Tyre Treat** has proven corrosion inhibiting properties on mild steel.

Directions for Use:

- **Tyre Treat** should be added to the wheel as received.
- Dosing will be dependent on wheel size.

DISPENSING: Contact your Applied Representative for information on the various air operated dispenser systems available for dispensing of **Tyre Treat**.

APPLICATION RATES FOR TYRE SIZE

TYRE SIZE	LITRES
1200 x 24/25; 1300 x 24/25; 1400 x 24/25	5.0
15.5 x 25; 1600 x 24/25; 17.5 x 25; 1800 x 24/25	5.5
20.5 x 25; 23.5 x 25; 2100 x 24/25	9.0
26.5 x 25; 29.5 x 25; 2400 x 25; 1800 x 33	12.0
2100 x 35; 2400 x 35; 2400 x 49; 26.5 x 29	14.0
33.5x33; 33.25 x 35; 2700 x 49; 2700 x 33; 29.5 x 35; 90 x 33.7	20.0
37.25 x 33; 37.5 x 33; 27.5 x 39; 65/35 x 33; 37.2 x 35; 37.5 x 3300 x 39; 41.25/70 x 39; 65/45 x 39; 40/65 x 39; 3000 x 51; 3300 x 51	30.0
65/45 x 45; 45/65 x 45	30
3600 x 51; 50/65 x 51; 667.5/60 x 51	38
3700 x 57; 4000 x 57	40
44/80 x 57	46
50/80 x 57; 53/80 x 57	54
53/80 x 63; 55/80 x 63, 59/80 x 63	62

IMPORTANT:

- To ensure total tyre and wheel protection, correct quantities of **Tyre Treat** are required to provide adequate cooling, rust and oxidation control.
- Severely damaged inner rims, extreme operating conditions, or badly rusted rims may require an increase of up to 50% above recommendations.
- Magnesium and aluminium wheels - use the quantity recommended to provide adequate sealing of wheel porosity.

Storage:

Avoid temperature extremes.

Precautions:

Please refer to appropriate safety data sheet (SDS) prior to using this product.

**For technical assistance, please call 1800-063-511
FOR INDUSTRIAL USE ONLY**

Warranty:

Applied will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Polymers & Fluids and Applied makes no representations or warranties of any kind concerning this data.

Order Information:

A4111-1000 Applied Tyre Treat 1000 L (IBC)