



TOR armor



KEEP ROLLING WITH TOR ARMOR.[®]



TOR Armor,[®] a revolutionary biodegradable top of rail friction modifier (TOR FM) substantially reduces noise, wear and lateral forces. High lateral forces lead to loosened tie plates and fasteners, and can result in low rail rollover. TOR Armor is engineered for use on freight and transit rail applications.

During normal rolling, TOR Armor acts as a lubricant. When wheel creep occurs the product immediately increases "positive friction," reducing the creep condition and returning the wheels to a healthy rolling motion. The result is substantial reduction in vibrations, corrugations and high-frequency squealing.

TOR Armor contains no solvents or latex. It dries quickly between the wheel and the rail due to frictional heat, but it will not harden in the holding tank or at the ports of the applicator. It will not corrode holding tanks, pumps or other steel components. A carry down distance of 3 miles (5 km) is achievable in the majority of cases. Substantial lateral force reduction has been measured 6 miles from the applicator. Long carry distance often results in a reduction of the number of applicators needed.

Characteristics

Brookfield Visc. (Spindle 6 @ 60 rpm, 73.4°F (23°C))	15,000
Specific Gravity , g/cc @ 60°F (15.5°C)	1.270
Flash Point (closed cup).	None
% Effective Solids	10 - 15
Application Rate (Per 1000 Axles)	
Transit	175 ml
Freight	300 ml
Mixed	220 ml
Appearance	Smooth Dark Gray Paste
Usable Temperature range , °F (°C)	10° (-12°) to 140° (60°)

Packaging: Drums, Kegs, Pails, Non-returnable Totes

- **Wear** - reduces creep, hunting and corrugations.
- **Noise** - stops or substantially reduces high-pitched squeal.
- **Lateral forces** - greatly reduces rail damage by reducing lateral forces and angle of attack.
- **Long Carry Down** - less product used and fewer applicators needed means lower costs.
- **All season** - a single grade can be used in many climates.
- **Made in USA**

US Patent No. 9,617,498, No. 10,214,225 and Patents Pending.



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