

TOR armor



**Greatly reduce wheel
creep. Keep rolling
with TOR Armor.TM**

Less noise, wear and lateral forces. More rail life, safety and profits.

FR I C T I O N M O D I F I E R



Whitmore Rail is proud to introduce TOR Armor™. The revolutionary top-of-rail friction modifier (TOR FM) specifically designed to provide optimum friction at the wheel-rail interface. TOR Armor substantially reduces noise, wear, and lateral forces. High lateral forces lead to loosened tie plates and fasteners, and can result in low rail rollover. And it's engineered for use on freight and transit rail applications.



During normal rolling, TOR Armor acts as a lubricant. But 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. 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. The long carry distance often results in a reduction in the number of applicators needed.

TOR armor



- **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. TOR Armor temperature range is 10°F (-12°C) up through the hottest summer conditions. TOR Armor Low Temp temperature range is -40°F (-40°C) to 60°F (16°C).
- **MADE IN USA**

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An ISO 9001 and ISO 14001 registered company

