

SL WR2 WIRETHERM

India's First and Only Penetrative Synthetic Lubricant for Enhancing Wire Rope Life and Safety
Wire Rope Applications in Ports, Container Terminals & Shipyards

Port and shipyard cranes are the textbook case for penetrative synthetic rope lubricants — permanent salt spray, continuous cycles, and critical-lift equipment at the heart of terminal revenue. STS, RTG, and bulk unloader ropes fail from saline core corrosion regardless of how much topical grease is applied. WIRETHERM with marine-grade corrosion protection penetrates past the outer wires to where saline actually attacks.

Part A — Annual Cost of Wire Rope Failures (Large Private Port / Shipyard)

- **Rope life:** STS, RTG, and bulk unloader ropes in coastal service typically reach 40–55% of design life on saline internal corrosion.
- **Rope spares: ₹1.2–2.5 cr/year per large terminal.** STS main hoist ropes ₹15–35 lakh per set; RTG hoist ropes ₹6–12 lakh per set.
- **Change-out labour + crane downtime: ₹40–70 lakh/year.** Rope change on STS is an 8–16 hr out-of-service window per crane.
- **Terminal productivity loss: ₹2–6 cr/year — the dominant cost.** Each crane-hour of unavailability on a gateway port is ₹5–15 lakh in handling revenue and berth productivity.
- **Total: ₹3.6–9.2 cr/year per large terminal.** A penetrative marine-grade synthetic extends rope life 2–4× and addresses ₹1.5–4 cr/year per terminal. Highest engineering-case sector in this list.

Part B — Wire Rope Applications

- **Container Handling — Quayside —** STS (ship-to-shore) main hoist ropes; STS trolley ropes; spreader lift ropes.
- **Container Handling — Yard —** RTG (rubber-tyred gantry) hoist ropes; RMG (rail-mounted gantry) ropes; reach stacker boom ropes.
- **Bulk Cargo Unloading —** bulk grab unloader ropes (coal, iron ore, bauxite, grain, fertilizer); hopper handling ropes.
- **General Cargo —** wharf crane ropes; floating crane ropes; barge ropes.
- **Shipyard — Building Berth —** Goliath crane ropes; jib crane ropes; block handling gantry ropes.
- **Shipyard — Dry Dock —** dock crane ropes; dock gate ropes; bilge block positioning ropes.
- **Ship Repair & Outfitting —** outfitting crane ropes; gangway ropes; dock-side jib crane ropes.
- **Mooring & Tugs —** berth mooring winch ropes; tug tow winch ropes; capstan ropes.
- **Port Utilities —** bunker barge crane ropes; pilot station davit ropes; port fire tug ropes.
- **Yard Services —** straddle carrier ropes; pontoon crane ropes; pile handling crane ropes.

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