

## SL WR2 WIRETHERM

*India's First and Only Penetrative Synthetic Lubricant for Enhancing Wire Rope Life and Safety*  
**Wire Rope Applications in a Cement Plant**

Cement plants run wire rope primarily in dust-laden service — limestone quarry dragline and shovel ropes, coal and clinker handling grabs, bagged cement handling gantries. The defining stress is abrasive dust, which on topical grease forms a grinding paste that destroys ropes and sheaves together. WIRETHERM's dry penetrative film is inherently dust-rejecting — a step-change for cement plant crane and dragline reliability.

### Part A — Annual Cost of Wire Rope Failures (5 MTPA Integrated Plant)

- **Rope life:** dragline, shovel, and grab ropes with topical grease typically reach 45–60% of design life on abrasive-dust-induced wear.
- **Rope spares: ₹30–55 lakh/year.** Quarry dragline ropes ₹8–15 lakh; clinker and coal grab ropes ₹2–5 lakh; change-out frequency high.
- **Rope + sheave change labour: ₹10–20 lakh/year.** Abrasive-paste damage on topical grease forces sheave replacement along with rope.
- **Outage risk: ₹30 lakh–1.5 cr/year — the dominant cost.** Quarry dragline rope failure halts limestone feed; clinker grab failure chokes cement mill feed.
- **Total: ₹70 lakh–2.2 cr/year.** A penetrative synthetic extends rope life 2–3× and addresses ₹30 lakh–1 cr/year. Sheave protection is an additional compounded saving.

### Part B — Wire Rope Applications

- **Limestone Quarry** — dragline ropes; shovel hoist and crowd ropes; rope shovel boom suspension ropes.
- **Raw Material Handling** — stacker-reclaimer ropes; wagon tippler haul ropes; grab crane ropes.
- **Coal / AFR Handling** — coal grab ropes; AFR bale handling crane ropes.
- **Kiln & Cooler** — kiln shell maintenance rigging; cooler grate maintenance ropes.
- **Cement Mill & Silo** — silo roof crane ropes; mill reliner rigging ropes.
- **Packing Plant** — bag palletiser crane ropes; dispatch gantry ropes.
- **Bulk Loading** — bulk tanker loading gantry ropes; silo drop chute maintenance ropes.
- **WHRS / Captive Power Plant** — TG hall crane ropes; boiler maintenance rigging.
- **Workshop & Shutdown** — mill shutdown rigging ropes; ID/FD fan rotor lift ropes.
- **Finished Goods Warehouse** — pallet crane ropes; truck loading bay ropes.

**Request a free 90-day plant trial — your reliability data will speak for itself.**

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