

BECHEM Lubrication Technology Telescopic Crane Boom Lubrication

Thank you
General Overview

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Spray Gun and “Shuttle” Cartridges



Spray Application



Spray Application



Spray Application



Applied on Boom



Application Methods

Manual Application:

- Paint Roller
- Simple, Effective
- Not Efficient in Usage or Time

Spray Application:

- Savings of 40-60% in Usage
- Productivity Savings
 - (1 hour vs. 3-4 hours)
- MATO Pneumatic Spray Equipment



How Much?

- Guideline if Spraying...
- 7-10 g per linear foot (small/med)
- 12-25 g per linear foot (large)
- Seek “spider web” pattern.
- Retract boom to spread grease.
- Observe “plow” on wear pads & adjust if needed.
- **Customer must verify application amounts after application!**

How Often?

- Depends on duty cycle and environment....
- 2 – 4 times annually

Spray Pattern / Volume

How Much?

- RECTANGLE profile booms, approximately 1/2 cartridge per section
- ROUND profile booms with higher wear surface area, approximately 1 cartridge per section.



Seek a dense “Spider Web” Pattern

Customer must verify if application amounts are sufficient after application and in service!

Portfolio of Products



- Spray Can Boom Lubricant
- Wire Rope Spray
- Anticorrosion Spray
- Open Gear Spray
- Chain Spray
- Grease Spray
- Oil Sprays
- Rust Remover Spray
- Anti-seize Pastes
- Specialty/Bearing Greases

- Dozens of other products...

Wire Rope



Beruprotect Rope Dressing*

Wire rope care product



Examples of Application

- Corrosion protection all types of wire ropes, especially in very dusty environments
- Corrosion protection of springs, tools, small hardware parts, screws and bolts

Properties

- Low viscosity and hence easy application
- Extremely good penetration properties and excellent wetting of the wires inside the ropes
- Very good corrosion protection
- Good wear protection
- After evaporation of the solvent a thin, well adhesive and touch-dry protective film is formed on the surface
- The formed protective film is not dust binding

Open Gear



Berulit GA 2500 Spray

Open gear lubricant



Examples of Application

- Small open gear drives of mixers and dryers
- Chains of large diameters
- Closed wire ropes
- Drives at cranes, presses, crushers, kneaders, hoists, slide valves and actuators
- Highly stressed toothed couplings
- Heavily loaded slide and guide ways, spindles and disc cam mechanism

Properties

- Very good adhesion to metal surfaces
- High load carrying capacity
- Excellent wear protection by the use of special additives and solid lubricants
- Very good corrosion protection
- Free from bitumen, solvent and heavy metals
- No hardening or brittling of lubricant film
- Solid lubricant graphite

Corrosion Protection



Beruprotect Spray

Long-term corrosion protection



Examples of Application

- Solvent based protective wax for long-term preservation
- Anti-corrosion agent
- Corrosion protection by overseas transport

Properties

- Excellent adhesion
- Very good corrosion protection even in case of contact with salt water or salt water atmosphere

Characteristic data

- Appearance: light brown, wax-like layer
- Propellant: propane/butane

Boom Spray



Berulub PAL 3

White, adhesive and noise damping multipurpose paste



Examples of Application

- Telescopic mobile crane booms
- Lubricate and seal stop cocks, labyrinth seals, stuffing boxes and gland packings such as in appliances used in large kitchens
- To lubricate threaded spindles in thermostat valves
- Especially used for damping of structure borne sound as well as for frictional vibrations

Materials

- Non-ferrous metal/non-ferrous metal
- Metal/elastomer
- Plastic/plastic
- Metal/plastic

Properties

- Suitable for low temperatures
- Prevents stick-slip
- Extended relubrication intervals
- Very good adhesion
- Non-dripping and non-melting
- Good media resistance
- Resistant to hot and cold water, water vapours, lactic, formic, acetic or fruit acids as well as watery-alkaline and acid disinfecting or cleaning agents
- Contains PTFE

Salt Water Resistant Grease

BECHEM High-Lub SW 2

Multi-purpose lubricant suitable for salt-water atmosphere



Examples of Application

- Winches, screws, hinges, open gears, cylinder guides, threaded spindles and other machine parts of off-shore machinery, ship yards, underwater equipment, ship cranes, lifts, yachts, contact rails or distributors, clamping devices for containers or trailers
- Machines and equipment in wet sections in textile and paper industry
- Journal and roller bearings and other machine parts of water pumps, water turbines, flood gates, escalators and car-wash systems
- Especially suitable for steel ropes exposed to aggressive environmental conditions
- Corrosion protection grease for parts in direct contact with water

Properties

- Very good water resistance and excellent corrosion protection against sea water
- Very good pumpability
- Very high wear protection by EP additives



Thank you!



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