



Application Procedures

Crosby Vitalife® 4-Gallon Spray System

PURPOSE:

Wire rope needs to be lubricated on a regular basis to achieve maximum service life. Typically, wire rope wears from the inside center section towards the outer strands. Proper lubrication requires that the core strands of the rope be lubricated in order to reduce internal friction and wear.

Vitalife® wire rope lubricants provide outstanding penetration, preservation, and lubrication of wire rope in the harshest of conditions. Its viscous properties allow it to penetrate to the interstices between wires and strands; its high film strength prevents wear, resists oxidation and corrosion. Vitalife's self-healing film enables the lubricant to creep and "wet" the metal surface, forming an adhesive and protective film that will self heal and relubricate areas of the rope forced dry. Its water displacement properties make it the ideal lubricant for wet environments.

APPLICATIONS:

Vitalife® is recommended for maintenance of all wire rope in the field. It can be used on all sizes of standing and running ropes. Typical applications include, but are not limited to, cranes, hoist ropes, boom ropes, cable ways, slings, draglines, conveyors, material handling equipment, oil field, off-shore platforms, surface and underground mining equipment, construction, marine, fishing, gas and oil exploration equipment.

APPLICATION PROCEDURES:

1. For optimal performance, prior to pouring Vitalife into the sprayer, open the cap and remove the filter basket. Inside the sprayer is a Pressure Chamber. Press down the pressure regulator and adjust it to Setting 4 (see page 3E of the instruction booklet for details.) Once the setting has been adjusted, replace filter basket.
2. Pour Vitalife® into the sprayer. Close cap tightly.
3. Install appropriate spray nozzle onto the end of the spray wand (See enclosed assembly instructions for directions on page 2E – See Figure 3).
4. Approximately 15-20 pumps of the pump handle will provide an appropriate pressure, with an occasional 3 to 5 pumps as necessary to keep pressure up at nozzle end.

5. Using provided usage chart in Table 1, set the spray nozzle to the desired spray pattern/volume. The chart contains information on the amount of Vitalife[®] required for various wire rope sizes.
6. Applying the Vitalife[®] as evenly as possible, spray the entire length of the rope. (Some applications may require the rope be moved onto/off the drum for complete coverage).
 - a. With Vitalife[®] there is no need to over-lubricate. If the lubricant is rapidly dripping off the rope the application rate is excessive and should be reduced.
 - b. Twist the sprayer nozzle as desired to orient the spray fan.
 - c. The spray pattern can be controlled, from 2 inches wide to 10 inches wide, depending on the distance from the nozzle to the wire rope being sprayed.
7. Where possible, turn the rope over and lightly lubricate the other side.
 - a. Less lubricant will be needed on this second side because of the penetrating, migrating properties of Vitalife[®].
8. Visually inspect the rope to ensure complete coverage of the rope's entire length.

VITALIFE[®] USAGE CHART:

Wire Rope Diameter (In.)	Gallons of Vitalife [®] 400 and Vitalife [®] Bio-Lube per 1,000 ft.
1/2"	0.15
5/8"	0.20
3/4"	0.30
7/8"	0.40
1"	0.45
1-1/8"	0.55
1-1/4"	0.60
1-3/8"	0.70
1-1/2"	0.75
2"	0.90

Table 1