Metal Guard® 919

Metal Guard 919 is a water-based, wax emulsion rust preventative offering outstanding lubricity, adhesion, and durability on blackened, phosphate and bare metal surfaces. It can be applied by dipping, spraying, tumbling, or brushing on.

Features & Benefits

Outstanding lubricity, adhesion, and durability	Excellent torque tension control
Water soluble	Easily removed with a mild alkaline cleaner
Excellent rust protection	Can be used as a final coat on bare steel or black oxide

Physical Data

Specific gravity	Approximately 0.99 @ 70°F.
Vapor pressure	Same as water
Percentage of volatility by volume	None
Vapor density (air =1)	Same as water
Evaporation rate (ether =1)	< 1
Solubility in water	100%
Appearance and odor	Opaque tan emulsion, mild odor
pH	8.5 - 9.5
Approximate Coverage	1,000 – 2,000 ft^2 /gallon
Approximate Film Thickness (Dip)	< 0.5 mil
Flash Point	None

Operating Conditions

Metal Guard 919 is normally used as received but may be diluted with water, in special applications, up to 50% by volume.

Since Metal Guard 919 is a water/wax emulsion parts can be processed through it without pre-drying. Some care should be exercised, however, to prevent too great a carryover of water which would, in time, dilute the wax emulsion resulting in a thinner deposit with lower protective quality.

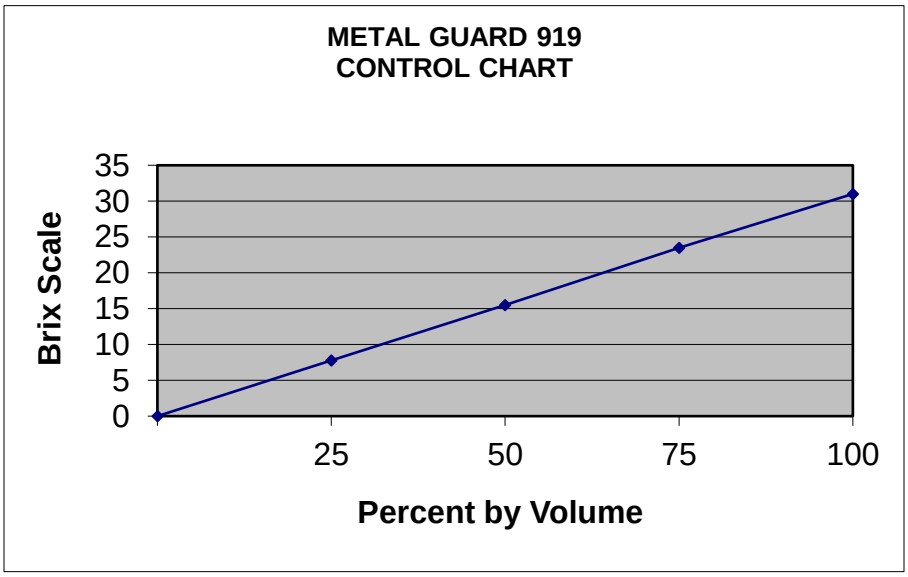
Metal Guard 919 coating will air-dry in a relatively short time. The drying period can be shortened by force drying with warm air or in heated spin dryers. If it becomes necessary to reprocess the parts, the wax coating may be removed in a hot alkaline cleaner or vapor degreaser.

Equipment
Metal Guard 919 wax emulsion can be contained in plain or lined steel tanks, stainless steel, polypropylene, PVC or supported polyethylene tanks.

Control Method

Small additions of Metal Guard 919 should be made to the working bath to replenish volume lost due to the processing of work.

Using a handheld Brix Scale Refractometer, simply compare the reading with the below control chart. Adjust as necessary.



Metal Guard 919 has a pH range of 8.5 to 9.5. If required, the pH should be maintained with small periodic additions of ammonium hydroxide. Great care should be taken in adjusting the pH.

Waste Disposal

Disposal of spent Metal Guard 919 should be in accordance to all applicable federal, state, and local environmental ordinances.

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For more information on this process,
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