Product Data

Rustilo™ Aqua 616

Aqueous Corrosion Preventive

Description

Castrol Rustilo™ Aqua 616 (previously called Aquasafe™ 616) is a unique, synthetic wax emulsion with unusual film clarity. It functions as a dual purpose dry film lubricant and corrosion preventive.
Rustilo Aqua 616 enhances the appearance of most surfaces. It also helps to prevent corrosion during indoor handling, storage and shipping of metal parts.

Application

Rustilo Aqua 616 is recommended for use as a corrosion preventive and decorative coating over treated metal surfaces such as iron and zinc phosphated, bonderized, cadmium plated, and anodized surfaces, as well as for hand tools.
Its dry film lubricating and corrosion preventive characteristics make Rustilo Aqua 616 ideal as a lubricative coating for various fasteners. Color concentrates or ultra violet absorbers may be added for color or detection of coating presence on fasteners after drying.
Rustilo Aqua 616 is commonly used as a nonflammable dry film lubricant and corrosion preventive on electrical connectors, pins, screws, and other electrical components. It will not inhibit the flow of electricity in electrical connectors.
This product may also be used as a decorative coating or dressing on rubber, plastic, and leather, as well as a lubricant and decorative coating for nylon zippers and plastic and metal buttons.
Excellent dry film lubricating and release characteristics allow Rustilo Aqua 616 to be used as a mold release and as a steel strapping/shell casing lubricant.

Advantages

- Excellent film clarity and coverage
- Excellent corrosion control
- Superior dry film lubrication
- Enhances appearance of most surfaces
- Nonflammable
- Contains no silicones
- Easy to apply and remove
- Easily diluted and mixed

Typical Characteristics

Description	Test Method	Unit	Rustilo Aqua 616
Appearance	Visual	-	Opaque, milky emulsion
Density @ 60 °F (15°C)	IP 160	g/ml	1.0
pH of Concentrate	ASTM D1293	-	9.25 - 9.95
Solids Content	-	%	11.6 - 12.4

User Advice

RECOMMENDED APPLICATIONS & DILUTIONS

- To achieve effective adhesion, apply Rustilo Aqua 616 to surfaces that are completely free of oils, greases, acids, soaps, and other foreign materials. The presence of water, unless excessive, will not interfere with adhesion or film forming characteristics. Parts must be dried before stacking.

- Rustilo Aqua 616 is a low viscosity liquid, and is applied by any method or technique adapted to the particular application—flow coat, roll coater, mechanical wipe, immersion, or spray.

- Whenever a spray technique is selected for application, a well-atomized spray is recommended. Repeated strokes over the spray pattern are necessary to ensure a thin, even coat. Care must be taken to avoid spraying a dry or partially dry pattern, since a dry spray will dull the final gloss. The ideal spray gun is one that combines a comparatively high capacity air cap with a low capacity nozzle, resulting in a large volume of air mixed with a relatively small volume of material. Internal and external air mix spray techniques are satisfactory for Rustilo Aqua 616 application, as is airless spray. In all cases, the atomization air pressure should be kept high (from 65 - 70 pounds). Avoid inhalation of product in spray application.

- Rustilo Aqua 616 dries tack-free under ambient conditions in approximately 20 minutes. Drying can be accelerated by application of heated air and increased air velocity. Drying time can also be reduced by heating parts prior to application of coating.

- The dry film of Rustilo Aqua 616 can be removed by using a petroleum solvent or alkaline process cleaner, all available from Castrol. Complete and efficient removal is a function of cleaner concentration, operating temperature, and contact/agitation time.

- Working dilutions of Rustilo Aqua 616 should be determined by the end user. Rustilo Aqua 616 can be diluted with tap water, however, if the local water is very hard, use deionized water. For maximum protection and durability, use at full strength.

Additional Information

Test Data for ASTM D2247-68
Humidity Cabinet, 100%-100°F (38°C):

Concentration	Cold Roll Steel/hrs	Iron Phosphate/hrs	Zinc Phosphate/hrs
100%	48	440	440
80%	40	440	440
67%	32	312	175

Test Data for ASTM B117-73
Salt Fog - 5% salt, 100%-100°F (38°C):

Concentration	Cold Roll Steel/hrs	Iron Phosphate/hrs	Zinc Phosphate/hrs
100%	-	21	42
80%	-	10	33
67%	-	8	24

This product was previously called Aquasafe 616. The name was changed in 2015.

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