

Tectyl® 603

Description

TECTYL® 603 is a polymeric, water emulsifiable corrosion preventive. It is specially formulated for coating phosphated and painted parts such as hinges, bolts, screws, brackets, fasteners, etc. It

contains a special additive system which provides a durable, self-healing, corrosion resistant film. The concentrated coating is an amber liquid. The cured film is clear and transparent.

Laboratory Data

Concentrate

Flash, PMCC*, Minimum	150°F
Viscosity @ 100°F (37.8°C), SUS	460
Pour Point	+10°F
Density, Weight/Gallon @ 77°F (25°C)	7.7 ± 0.1 lbs./gallon
API Gravity @ 60°F (15.6°C)	21
Specific Gravity @ 60°F (15.6°C)	0.93
Non-Volatile % by Weight	87.5 ± 1
Non-Volatile % by Volume	85 ± 1
Volatile Organic Content (VOC), Maximum	0.97 lbs./gallon

Tectyl® 603 @ 20% Concentration In Water

Density, Weight/Gallon @ 77°F (25°C)	8.2 ± 0.1 lbs./gallon
API Gravity @ 60°F (15.6°C)	11.5
Specific Gravity @ 60°F (15.6°C)	0.99
Recommended Dry Film Thickness over Metal Profile	0.125 mils
Theoretical Coverage @ Recommended DFT (typical)	2,180 sq. ft./gallon
Non-Volatile % by Weight	17 ± 1
Non-Volatile % by Volume	17 ± 1
Volatile Organic Content (VOC), Maximum	0.20 lbs./gallon
pH	7.8

Accelerated Corrosion Tests:

5% Salt Spray (Hours)	
ASTM** B-117 @ Recommended DFT (2x4x1/8 in. Polished Steel Panels)	240
100% Relative Humidity (Hours)	
ASTM D-1748 @ Recommended DFT (2x4x1/8 in. Polished Steel Panels)	1250

*PMCC (Penske Martin Closed Cup)

**ASTM (American Society for Testing and Materials)

Benefits

Easy Application TECTYL® 603 is applied as a water emulsion. It is normally applied in a dipping operation.

Long-Term Protection TECTYL® 603 deposits a self-healing film on phosphated parts and components that provides salt spray protection superior to conventional water soluble rust preventive oils. Phosphated parts coated with an emulsion of 20 percent TECTYL® 603 and 80 percent water will pass the 240 hour salt spray test requirement of the General Motors 6035-M phosphating specification.

The maximum protection of TECTYL® 603 can only be obtained when applied to properly phosphated components. TECTYL® 603 will not compensate for inadequate phosphating. Adequate phosphating per the General Motors 6035-M specification is 2,000 - 3,000 milligrams of zinc phosphate per square foot of coating area.

Application

1. Charge tank with de-ionized water.
2. Begin mixing and bring water temperature to 140 - 160°F (60 - 71°C).
3. Add TECTYL® 603 slowly, with agitation, to develop a 20 percent emulsion. WHEN MIXING, ALWAYS ADD TECTYL® 603 TO THE WATER, NEVER IN REVERSE ORDER.
4. The TECTYL® 603 emulsion temperature at the time of initial fill and application should be 140 - 160°F (60 - 71°C).
5. Mechanical agitation (not air) is required at all times.

CAUTION: The data, statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. However, this product is subject to numerable uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

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REFER TO MATERIAL SAFETY DATA SHEET FOR HEALTH AND SAFETY INFORMATION.

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System Maintenance

A properly maintained system is important for optimum performance. To ensure proper protection, the pH and emulsion concentration of TECTYL® 603 should be checked at least once daily. Refer to Technical Bulletin #29 for complete information regarding maintenance and handling procedures.

Caution

Refer to Daubert's Material Safety Data Sheet for health and safety information.

Note:

The addition of any product over or under this coating is not recommended. The use of additional coatings could result in chemical incompatibility, thus adversely affecting the performance of this coating as stated in the lab data section. If a product other than Daubert Chemical Company's recommended product is required, written authorization must be obtained from Daubert Chemical Company.

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