
**PRODUCT
INFORMATION****NOX-RUST® X-163 CLEAR****Description**

NOX-RUST® X-163 is a calcium sulfonate wax-base corrosion preventative designed to provide a long-term corrosion resistance for automotive underbody and inner cavity sections. NOX-RUST® X-163 meets all requirements for Military Specification MIL-C-0083933A

(MR), and MIL-C-62218 Type I Corrosion Preventative Compound for Motor Vehicles. This product also meets the material requirements specified in the United States Post Office Maintenance Bulletin POD-V-82-80.

Laboratory Data

Film Color
Specific Gravity
Weight per Gallon
Viscosity
Non-Volatiles (by weight)
Flash Point ASTM-D92
Dry Time
Removal (Dry or Wet Films)
Film Thickness

Typical Properties

Tan Color, Wax-like
0.89
7.4 lbs/gal
15,000 cps (LV #4 @ 12 RPM)
52% (Min.)
100°F (Min.)
4 hours, weatherproof / 1-2 days, tack free
Mineral Spirits, Kerosene
Wet, 8-16 mils / Dry, 4-8 mils

Performance Characteristics

All panels were sprayed to a wet film of 8-9 mils, resulting in a dry film thickness of 4 – 4½ mils. All tests ran according to MIL-C-62218.

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| • Corrosion Resistance ASTM-B-117, 5% Salt Spray | 1000 Hours (Min.) |
| • Humidity Resistance ASTM D-1748 | 4000 Hours (Min.) |
| • High Temperature Sag Resistance | 300°F (Min.) |
| • Fire Resistance | Passes, does not support combustion. |
| • Low Temperature Flexibility | Passes, no cracking at -20°F. |
| • Water Displacement | Passes, displaces water. |
| • Salt Water Immersion | 14 days, no corrosion. |
| • Creep | Passes, greater than ¼". |
| • Humidity Cycle Test, 30 days, MIL-C-83933-B | 30 Days, Pass. |
| • Humidity Thermal Cycle, 15 cycles, MIL-C-83933-B | 15 Cycles, Pass. |

Surface Preparation

NOX-RUST® X-163 will readily adhere to primed and unprimed metal surfaces, even those that contain condensed or residual moisture. The resulting film will dry to a stipple finish that is firm, yet maintains flexible at low temperatures. The dried film has excellent heat resistance and will not flow at temperatures over 300°F. Nox-Rust® X-163 will not stain automotive top coat paints.

Application

NOX-RUST® X-163 is formulated to be used as supplied. Ensure uniform consistency prior to use. Continued stirring is generally not required. If the product thickens due to cold storage or loss of solvent during use, contact Daubert Chemical Company. DO NOT THIN NOX-RUST® X-163. Incorrect thinning will affect film build, dry time and product performance. NOX-RUST® X-163 can be applied by brush or conventional air spray techniques. It is most easily applied with airless spray equipment, delivering 600 to 1000 psi at spray gun through a .018-.025 spray tip. The thixotropic nature of NOX-RUST® X-163 provides for drip and sag-free application. For best results, the temperature of Nox-Rust® X-163 and the surface to which it is applied should be kept between 50 - 100°F. DO NOT FREEZE Nox-Rust® X-163.

Removal

NOX-RUST® X-163 can be removed with Tectyl® HPS solvent borne thinner, vapor degreasing, hot alkaline wash, or low-pressure

steam. NOX-RUST® X-163 can be removed from fabrics by normal dry cleaning procedures. Avoid the use of chlorinated or highly aromatic solvents when removing from painted surfaces, as these solvents may adversely affect paint.

Storage

Store NOX-RUST® X-163 at temperatures between 50-95°F (10-35°C). Mild agitation is recommended prior to use.

Caution

Adequate ventilation is required for cure and to ensure against formation of a combustible liquid. THE PARTIALLY CURED FILM SHOULD NOT BE EXPOSED TO IGNITION SOURCES SUCH AS FLARES, FLAMES, SPARKS, EXCESSIVE HEAT, OR TORCHES. Refer to Daubert's Material Safety Data Sheet for additional handling and first aid 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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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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