



## Technical Data

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### **NOX-RUST® 8500 (576-055) COATING** (Water-Based Engine Coating)

#### **PRODUCT DESCRIPTION**

Nox-Rust 8500 (576-055) is a water-based engine coating designed to protect unfinished metal and industrial finishes against the damaging effects of acid and solid particle fall-out during transit and storage. Nox-Rust 8500 deposits a thin, clear film which is dry and tack-free to prevent dust and dirt pick-up.

Nox-Rust 8500 will provide the following to protect industrial finishes:

- Protects against normal oxidation and weathering.
- The firm film will help protect the surface from marring or scratching.
- Eliminates water spotting (lightened and discolored type) caused by acidic rains or hard water.
- Prevents rust stains on paint caused by flakes of rust or metal falling on surfaces during domestic and overseas transit.

#### **TYPICAL PHYSICAL PROPERTIES**

Appearance	Opaque, light colored emulsion
Solids by Weight	28.0%
Solids by Volume	26.5%
Weight per Gallon	8.5 Lbs.
Specific Gravity	1.02
Viscosity - Brookfield RV Spindle #6 at 10 rpm	2,000 cps
Percent by Weight H <sup>2</sup> O	68.5
Percent by Weight of VOC	3.5
VOC (EPA Standard, EPA-450/3-84-019)	0.98 Lbs/Gal minus Water
pH	8

## PERFORMANCE PROPERTIES

Panels sprayed to 6-8 mils wet resulting in a 1-2 mil dry coating. Substrates used were 3X6 R-type Q panels, 3X6 aluminum Q panels for humidity testing; 4X12 R-type Q panels and 4X12 aluminum Q panels for the rest of the testing.		
Q Panel Cleveland Condensation Cabinet 100 hrs., 40°C	Steel	Coating turns slightly opaque. Adhesion is slightly reduced but coating remains tough. There is no evidence of corrosion under film. Coating returns to clear, glossy state when dry.
	Aluminum	Same results as observed for steel. There is no black staining of aluminum.
Salt Spray 168 hours	Steel	Coating turns slightly opaque. Adhesion is slightly reduced but coating remains tough. Coating has 5% corrosion, mostly on top and edges.
	Aluminum	Coating turns slightly opaque. Adhesion is slightly reduced but coating remains tough. There is no evidence of corrosion on panel.
Corrosion Cycles GM, Cycle "G" 10 Cycles	Steel	After removal from salt spray, coating shows no corrosion under film. Adhesion remains excellent. Coating does not yellow nor show any other defects.
	Aluminum	Same results as observed for steel.
High Temperature 4 hrs. @ 250°F.	Steel	Coating does not flow, sag, yellow, or lose adhesion during test. The clarity and gloss of the film is not affected. Slight tack of the film is noticed.
	Aluminum	Same results as observed for steel. There is no staining of the aluminum.
	White Automotive Topcoatings	Same results as observed for steel. There is no defect to the engine coating or topcoat.
Gravelometer -20°, SAE J-400		Pass. Gravelometer rating excellent.
Politic-Humidity and Thermal Cycle		Pass. Coating does not peel, lift, bloom nor show other defects.
Detergent Wash Cycle Note #5		Pass. Coating is not affected by detergent and shows no surface defects.
Freeze-Thaw Cycles 4 hrs - 10°C 4 hrs - room temperature		Product can be frozen for one cycle and still be sprayable. After the second cycle, material viscosity is too heavy to spray. Can be diluted with water.
Tack-free, 38°C, 120°C		Material is tack-free at 38°C 40 minutes after application. Material shows slight tack at 120°C. If left in the oven overnight, the coating does not show.
Removability		Material can be removed with soap and water up to one hour after application.

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The data, statements and recommendations 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. Physical properties shown above represent typical values and are not intended for use in writing specifications. However, this product is subject to numerous 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 use.

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