



POXYLUBE® 303
 HIGH PERFORMANCE URETHANE COATING
 SERIES R303
 TWO-COMPONENT, WATER REDUCIBLE

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DESCRIPTION

POXYLUBE® 303 is a high performance, two-component, water reducible urethane.

OUTSTANDING FEATURES/BENEFITS

- Unsurpassed durability
- Excellent hardness and mar resistance
- Outstanding adhesion to a wide variety of surfaces
- Cured film is water repellent

TYPICAL USES

- Steel surfaces that require a long lasting, attractive, and mar resistant finish.

NOTICE

Before using this product, read all warnings, limitations and safety information printed on the product label, Safety Data Sheet and Technical Data Sheet. The properties listed on this sheet are not intended for use as a specification. Please contact our Technical Service Team.

Refer to our website for answers to common questions:
<https://www.sandstromproducts.com/resources/FAQs/>

LIMITATIONS

- There is a 3 hour pot life (at 77°F) after mixing. Using material past the 3 hour mark will result in a loss of hardness.
- PoxyLube® #303 is formulated for spray application only.

COMPOSITION AND PHYSICAL PROPERTIES

Net Weight per gallon[^] (4A + 1B) ASTM D1475	9.8 lbs. ± 0.2 lbs./gallon (Theoretical)	Vehicle	Polyurethane
Weight Solids (A+B)	50% ± 2% (Theoretical)	Lubricating Pigment	PTFE
Volume Solids (A+B)	40% ± 2% (Theoretical)	Color	Black, White and Custom Colors upon request.
VOC	2.05 ± 0.05 lbs./gallon (248 ± 6g/L) (Theoretical)	Color Stability	Not for exterior use
Odor	Mild Solvent	Finish	Varies by color
Mix Ratio	4 parts A to 1 part B (by volume)	Gloss[^] ASTM D523	<10.0 gloss units @ 60°
pH	>7.0	Induction Period	None required
Viscosity (A+B)[^]	Varies by color	Pot Life	3 hours @ 77°F (see Limitations)
Shelf Life	6 Months from Date of Manufacture	Coverage Rate*	650 sq. ft./gallon @ 1.0 mil DFT
Storage Conditions	40°F to 80°F	Recommended Coats	1
Freeze/Thaw Stability	DO NOT FREEZE	Dry Film Thickness ASTM D7091	0.5 – 1.0 mil

*Actual figures do not include spray loss. Also allow for surface irregularities and porosity, as well as material loss when mixing.
[^] Property tested with each production batch.

PERFORMANCE AND FUNCTIONAL PROPERTIES

Chemical/Fluid Resistance:		CS-17 Taber Abrasion	30 ± 5 mg loss per 1000 cycles	
<i>Skydrol</i> 68 Hr. soak @ Room Temp. over B1000 Panel	No adhesion loss	Hardness ASTM D3363	F pencil	
Crosscut Adhesion ASTM D3359	4+	UVA Resistance ASTM G154 UV	432 hours .83 ΔE (340 Bulbs)	
	Substrate:	11Ga #4 SS	11Ga 316 SS	11Ga HR
Adhesion ASTM D3359 Method A		4A	4A	4A
Impact Resistance ASTM D2794	Direct (Intrusion)	160 in.-lb.	160 in.-lb.	140 in.-lb.
	Reverse (Extrusion)	60 in.-lb.	140 in.-lb.	40 in.-lb.

[^] Property tested with each production batch.

IMPORTANT NOTICE TO BUYER / WARRANTY AND LIMITATIONS ON OUR LIABILITY
 We warrant our products to be free of manufacturing defects and that they meet our current published physical properties and specifications. All information and suggestions presented are rendered gratis and are accurate to the best of our knowledge. They are based on technical data we believe to be reliable and are intended for use by persons having skill and "know-how" at their own discretion and risk. Prior to use, customers are cautioned to determine the suitability of our products for any given application through their own testing. NO WARRANTY IS MADE, EXPRESS OR IMPLIED, REGARDING SUCH INFORMATION, THE DATA ON WHICH IT IS BASED OR THE RESULTS OBTAINED FROM ITS USE OR THAT OUR PRODUCT SHALL BE MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE. SUCH STATEMENTS ARE NOT INTENDED TO SUGGEST INFRINGEMENT OF ANY PATENT. Since conditions of use of our products are beyond our control, all suggestions and statements are made without guarantee, warranty or other responsibility, express or implied, on our part. We assume no responsibility for results obtained, or damages incurred, from their use beyond replacing material proved to be defective or refunding the purchase price of such material at our option. Acceptance of delivery of our product means you have accepted the terms of this warranty, whether or not purchase orders or other documents state terms that vary from this warning. No seller is authorized to make any representations or warranty or assume any other liability on our behalf with any sales of our products. SANDSTROM PRODUCTS COMPANY

GENERAL

Poxylube® 303 consists of lubricative pigments dispersed in a room temperature curing resin system thinned with appropriate solvents. For maximum service, the APPLICATION INSTRUCTIONS MUST BE FOLLOWED CLOSELY.

FILM THICKNESS & ENGINEERING TOLERANCE

As supplied, this product will yield a film thickness of about 0.0005 to 0.001 inches per spray application. Usually engineering tolerances will permit necessary minimum film buildup of 0.0005 to 0.001 inches without interference. Whenever possible, the proper tolerances should be designed into the part.

COVERAGE

One gallon of this material will cover 480 - 520 sq. ft. with a dry film thickness of 0.0005 inches. Coverage depends upon methods of application and other variables such as overspray and type of surface to be coated. Above coverage rates are based on 100% efficiency.

SURFACE PREPARATION

Surfaces to be coated must be clean, dry, and free of all dirt, grease, silicones, release agents, wax, loose or peeling paint, oil or other contaminants. Consult Sandstrom Products Company for specific project recommendations.

CLEANUP

Use soap and water.

IMPORTANT! DO NOT TOUCH CLEAN SURFACE WITH FINGERS - OIL FROM THE HANDS WILL INTERFERE WITH PROPER COATING ADHESION. Whenever possible, treat both contact surfaces (i.e., the shaft and the bearing).

STIRRING

While stirring Component A, slowly pour all contents of Component B into Component A (The mix ratio is 4 to 1). Stir until thoroughly mixed. No waiting period is required. AGITATE VERY MILDLY BY HAND DURING USE FOR CONSISTENT SHEEN.

THINNING

No reduction should be needed for spray application. If desired, reduce as needed by volume with a maximum of 10% water.

APPLICATION

POXYLUBE® 303 is formulated for spray application. For conventional air spray use between 40-60 psi. **Do not over apply. Applying over 6 mils wet will cause blistering in the dried film. 3 to 4 mils wet is the optimum for performance.** Adjust gun tip, fluid pressure and air pressure as needed to apply a smooth film.

DRYING TIME

Air dry according to the following @ 70°F, 50% relative humidity and adequate ventilation before putting into service.

- Tack free:.....4 hours
- Hard cure:.....12 hours
- Complete cure:.....7 days

DANGER! USE WITH ADEQUATE VENTILATION.

WARNING: OPERATOR SHOULD WEAR MESA/NIOSH APPROVED RESPIRATOR SUITABLE FOR AN ISOCYANATE/ORGANIC VAPOR ENVIRONMENT.

IMPORTANT NOTICE TO BUYER / WARRANTY AND LIMITATIONS ON OUR LIABILITY
We warrant our products to be free of manufacturing defects and that they meet our current published physical properties and specifications. All information and suggestions presented are rendered gratis and are accurate to the best of our knowledge. They are based on technical data we believe to be reliable and are intended for use by persons having skill and "know-how" at their own discretion and risk. Prior to use, customers are cautioned to determine the suitability of our products for any given application through their own testing. NO WARRANTY IS MADE, EXPRESS OR IMPLIED, REGARDING SUCH INFORMATION, THE DATA ON WHICH IT IS BASED OR THE RESULTS OBTAINED FROM ITS USE OR THAT OUR PRODUCT SHALL BE MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE. SUCH STATEMENTS ARE NOT INTENDED TO SUGGEST INFRINGEMENT OF ANY PATENT. Since conditions of use of our products are beyond our control, all suggestions and statements are made without guarantee, warranty or other responsibility, express or implied, on our part. We assume no responsibility for results obtained, or damages incurred, from their use beyond replacing material proved to be defective or refunding the purchase price of such material at our option. Acceptance of delivery of our product means you have accepted the terms of this warranty, whether or not purchase orders or other documents state terms that vary from this warning. No seller is authorized to make any representations or warranty or assume any other liability on our behalf with any sales of our products. SANDSTROM PRODUCTS COMPANY