



LUBRIZOL® ADHESION PROMOTERS

POLYMERIC PHOSPHATE ESTERS

Lubrizol® 2061, 2062H, and 2063H are polymeric phosphate esters used to improve the adhesion of a wide variety of solvent-borne and water-borne coatings to metal substrates. These products improve adhesion through the formation of a direct bond with the metal. Lubrizol adhesion promoters can also improve coating flexibility and corrosion resistance through the same mechanism. These additives are also used to passivate metallic pigments.

Features & Benefits

- Proven adhesion performance with ferrous, aluminum and coated metal “multi-substrates”
- Optimum formulation performance at low additive levels
- Passivation and stabilization of metallic pigments
- Improved coating adhesion improves overall protective properties, including corrosion resistance

Proven Adhesion

Lubrizol Adhesion Promoters are proven to improve the adhesion of coatings to a variety of metal substrates. These additives are especially effective on aluminum, but also work well on cold-rolled and galvanized steel and can even improve adhesion to poorly prepared surfaces. Lubrizol Adhesion Promoters can deliver excellent adhesion even in challenging applications requiring outstanding wet adhesion.

Metallic Pigment Passivation

Lubrizol Adhesion Promoters can be used to protect untreated metallic pigments such as aluminum flake and mica-based effect pigments from degradation in water-borne coatings by passivation of the pigment surface. Passivation of the pigment surface can also improve humidity resistance of solvent-borne metallic effect coatings. Passivation of untreated metallic and effect pigments using Lubrizol Adhesion Promoters is a cost-effective formulation strategy for achieving stable and consistent color and appearance matches in water-borne coatings.

Features & Benefits

- Delivers outstanding adhesion to metal substrates, for coatings suitable for demanding environments
- Enables the use of cost-effective, untreated metallic and effect pigments in water-borne coatings

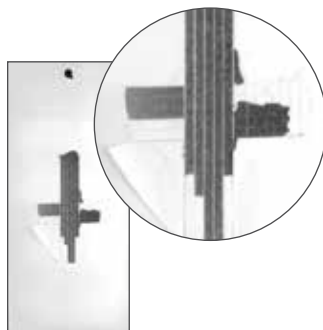


Benefits of Lubrizol® Adhesion Promoters

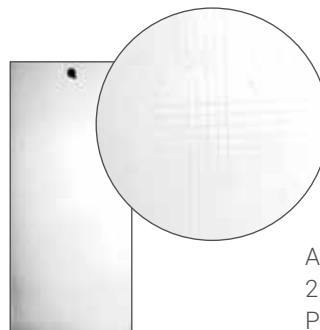
BENEFITS	Lubrizol® 2061	Lubrizol® 2062H	Lubrizol® 2063H
Improves metal coating adhesion	✓	✓	✓
May enhance adhesion to poorly prepared metal substrates	✓	✓	✓
Enhances corrosion resistance	✓	✓	✓
Reduces flash rust	✓	✓	✓
In combination with zinc phosphate, can improve A/C pigment effectiveness	✓		✓
No adverse impact on storage stability	✓	✓	✓
FDA-approved (21 CFR 175.260)			✓
Improves inter-coat adhesion (acid cure)			✓
Metallic pigment stabilization		✓	✓

Improves Adhesion to a Variety of Metal Substrates

Control



With Lubrizol® 2063H



Application:
2K White Solvent-Borne
Polyurethane on Aluminum

Lubrizol

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

Product safety information required for safe use is not included. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE FROM YOUR LUBRIZOL REPRESENTATIVE, OR DISTRIBUTOR.