

#### 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

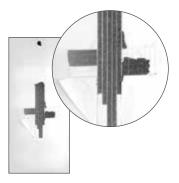


#### Benefits of Lubrizol® Adhesion Promoters

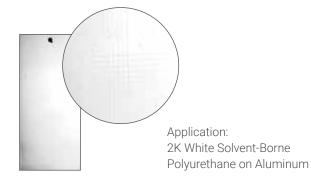
BENEFITS	Lubrizol® 2061	Lubrizol® 2062H	Lubrizol® 2063H
Improves metal coating adhesion	✓	✓	✓
May enhance adhesion to poorly prepared metal substrates	✓	✓	✓
Enhances corrosion resistance	✓	✓	✓
Reduces flash rust	<b>√</b>	<b>√</b>	<b>✓</b>
In combination with zinc phosphate, can improve A/C pigment effectiveness	<b>√</b>		<b>√</b>
No adverse impact on storage stability	✓	✓	✓
FDA-approved (21 CFR 175.260)			✓
Improves inter-coat adhesion (acid cure)			1
Metallic pigment stabilization		<b>✓</b>	<b>✓</b>

### Improves Adhesion to a Variety of Metal Substrates

Control



With Lubrizol® 2063H



# Lubrizol

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