



PRODUCT DATA SHEET

UI-9906

ADHESION PROMOTER FOR BONDING URETHANE ELASTOMERS TO METAL

1. PRODUCT:

UI-9906 is a liquid, single component, adhesive for bonding various UI castable elastomers to metals and other rigid substrates.

2. KEY FEATURES:

- Low Viscosity
- Ready To Use
- Easy To Apply
- Can Brush, Coat or Spray
- Can Be Used On Aliphatic Urethane
- Can Be Used On Aromatic Urethane
- Bonds are Resistant to Water, Salt Spray and Many Solvents

3. PREPARATION OF METALS:

- A. The metal surface must be thoroughly cleaned prior to applying UI-9906. All oils and greases should be removed by using a solvent degreaser or an alkaline cleaner. Chemical or mechanical cleaners should be used to remove oxide coatings, scale or rust.
- B. Grit blasting is the recommended method for mechanical cleaning. For blast cleaning of ferrous metals, steel grit is recommended. For blast cleaning of stainless steel, aluminum, zinc, brass and other non-ferrous metals, sand or aluminum oxide grit is recommended.
- C. For chemical cleaning of steel, phosphatizing is the commonly used method. For chemical cleaning of aluminum, a chromate conversion coating is the commonly used method.

4. APPLICATION

- A. After surface cleaning of metal surface, UI-9906 shall be applied by brush, roller coat, dipping or spraying. UI-9906 does not have to be mixed prior to applying. A uniform coat should be applied with no excessive running.
- B. For brush, roller coat or dipping, UI-9906 should be used without diluting.
- C. For spray applications, it is recommended UI-9906 be diluted with a glycol ether type solvent or a blend of equal parts by volume of toluene and isopropanol. The proper amount of dilution should be determined by testing.
- D. For best results, the dry thickness of the UI-9906 should be 0.5 to 1 mil. UI-9906 at room temperature dries in approximately 60 minutes. If a shorter drying period is desired, forced drying may be used at temperatures to 250°F. At 250°F

drying time is approximately 15 minutes. UI-9906 dries to a clear, soft, non-tacky film.

- E. Bonding operation may be started as soon as the UI-9906 film is completely dry. If bonding is not commenced immediately upon drying of UI-9906, the coated parts may be stored up to 30 days if protected from contamination and excessive humidity, otherwise the parts must be recoated and dried prior to bonding operation.
- F. Adhesion for two part urethane coatings or elastomers applied to UI-9906 coated metal develops in 24 hours at room temperature.

5. PRECAUTIONS:

Handling or use of UI-9906 may be hazardous. Apply in a well ventilated area or use a chemical canister face mask. Avoid prolonged breathing of vapors and mists; particularly when spraying. Keep materials away from heat, sparks and flames. Wash thoroughly after using or before eating or smoking. Avoid prolonged contact with skin. Harmful or fatal if swallowed. If swallowed, or do not induce vomiting. Call a physician immediately. Refer to MSDS on UI-9906. If not on file, contact UPI for a copy. For industrial use only.

6. STORAGE AND HANDLING:

- A. Store in clean, dry and cool location at 70-80°F.
- B. Do not open until ready to use.
- C. Protect from moisture as product is very moisture sensitive.
- D. Use only in well ventilated areas.
- E. Do not dilute.

7. STANDARD PACKAGING:

- 1 Pint
- 1 Quart
- 1 Gallon

8. TECHNICAL SERVICE:

Technical assistance is available by contacting Preformed Line Products' Technical Service Department.

9. WARRANTY:

The statements made herein are based on our research and the research of others and are believed to be accurate. No guarantee of their accuracy is made, however. Neither the seller nor the manufacturer has any knowledge or control concerning the purchaser's use of the product. No express warranty is made by the seller or

the manufacturer with respect to the results of any use of the product. Neither seller nor manufacturer assumes any liability for personal injury, loss or damage resulting from the use of the product. In the event that the product shall prove defective, the buyer's exclusive remedy shall be repayment of the purchase price, or, at the manufacturer's option, replacement of the non-conforming product. The buyer expressly waives any claim to additional damages, including consequential dam-

ages. Warranty claims are void unless made in writing within thirty (30) days after purchase. Warranty runs exclusively to the benefit of the original buyer.

NOTE:

Prior to use, customer should thoroughly evaluate to determine suitability for use intended, as UI-9906 may not work on some substrates or with some types of urethanes.

10. TECHNICAL DATA (TYPICAL)	
PROPERTY	RESULT
Color	Clear to Light Yellow
Weight / Gallon	8.1 lbs ± 0.2
Viscosity	900 cps ± 150 cps Brookfield LVT, #3
Flash Point	Spindle @ 60 RPM @ 77°F
Composition	36°F
Coverage	Mixture of Resins and Organic
Dilutents	Polymers dissolved in an Organic
Solvents	Solvent
Shelf Life	250 sq. ft./gal/1 dry ,mil Glycol Ether Solvents, Isopropanol, Toluene Ethanol, Isopropyl, Toluene, Trichloroethylene 1 year in Unopened Containers When Properly Stored