### PRODUCT DATA SHEET

## UI-5651

# LOW COST, FAST CAST LIQUID TWO COMPONENT URETHANE SYSTEM

#### 1. DESCRIPTION

UI-5651 fast cast system is a two component liquid polyurethane compound, formulated for casting wheels and other manufactured parts requiring high production rates. This system does not contain any TDA or Moca.

#### 2. KEY FEATURES

Easy to Handle and Use
Superior Abrasion Resistance
Excellent Tensile Strength
High Resilience
Available in a Variety of Colors
Good Chemical Resistance
Fast Demold Time
Wide Temperature Range Usage
Superior Elongation
High Tear Strength

#### 3. STANDARD PACKAGING

DRUM	PACK	
Part A (Polyol) Part B (Isocyanate)	55 Gal. Drum (450 lbs.) 55 Gal. Drum (500 lbs.)	
Net Unit Weight	950 lbs.	

#### 4. APPLICATION

Application procedures will vary depending on parts being manufactured and production equipment. It is recommended that both Part A and Part B be preheated and maintained at 100°-105°F when being used. The system is preadjusted to give a 30-40 second gel time at this temperature range. The system can be adjusted differently for specific applications. Contact Preformed Line Products for details.

UI-5651 fast cast system can be cast in either metal or plastic molds. UI-5185 mold material has a successful history of use with this system.

Due to small lot-to-lot variances, the specific mix ratio may vary ± 3% from the standard mix ratio.

For best results, mold surfaces should be preheated and maintained at 140°-160°F. Demold time at this temperature range is 90 - 120 seconds.

UI-5651 fast cast system performs exceptionally well in rim equipment when gel times are supplied in a 10-15 second range. This will result in a demold time of less than one minute per part.

#### 5. TECHNICAL SERVICE

Technical service on specific applications is available by contacting Preformed Line Products' Technical Service Department.

#### 6. STORAGE, SAFETY AND HANDLING

Store in a cool dry area. Avoid temperatures above 85°F and below 50°F. Before using, read carefully Preformed Line Products' General Information Bulletin on Safety, Handling, Storage, Packaging, Technical Services and Warranty. Material Safety Data available upon request.

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

ALBEMARLE, NORTH CAROLINA 28001

8. PHYSICAL PROPERTIES (TYPICAL)			
PROPERTY	RESULTS	ASTM TEST METHOD	
Shore Hardness (Shore A)	65±2	D2240	
Mix Ratio		I	
by Weight	41.5A/100B	PLP R&D	
by Volume	0.35A/1.0B	PLP R&D	
Viscosity - CPS	ı	l	
Part A (Isocyanate)	400	D2393	
Part B (Polyol)	640	D2393	
Weight per Gallon	1	l	
Part A lbs.	10.0	PLP R&D	
Part B lbs.	8.6	PLP R&D	
Mix Time (Seconds)	12 - 15	PLP R&D	
Gel Time (@ Room Temperature)	45 - 75	D2471-71	
Seconds	1		
Demold Time (@ 140-160°F)	90 - 120	PLP R&D	
Seconds	ı	l	
Cure Time	1		
95% - Hours	24	PLP R&D	
Complete - Days	2-3	PLP R&D	
Tensile Strength - PSI	578	D412-80	
Elongation, Ultimate - %	460	D412-80	
Modulus (100%) - PSI	300	D412	
Compression Set - %	17	D695	
Tear Strength, Die C - PLI	176	D624-81	
Tear Strength, Split - PLI	28	D470	
Abrasion Resistance (Tabor)	5.0	CS-17	
MG Lost; 1000 GM/1000 REV	l .		
Specific Gravity (25°C)	1.2 Part A	PLP R&D	
	1.12 Part B		
Resilience (Rebound) - %	56	BASHORE	
Lineal Shrinkage - %	1.6	D2566	
Lineal Coefficiency of	1.03 X 10 <sup>-4</sup>	D2566	
Expansion - in/in°F			
Shelf Life - Months	12	PLP R&D	
Solids - %	100	PLP R&D	