

# URS 5685

## 100% SOLIDS TROWELABLE URETHANE SYSTEM

REVISED 08/08

### DESCRIPTION

**URS 5685** is a room temperature curing, two component urethane designed for easy mixing and application. Apply 150 mils thicknesses in one application without sagging or slumping. Cures to medium hard coating, 85 Shore A, high performance polyurethane. Excellent resistance to abrasion and corrosion in varied environments. Excellent for lining and protecting hoppers, chutes, fans, pumps, vibrating and pneumatic conveying equipment.

### LIQUID PROPERTIES

#### ISO 450A

#### AMN 940B

#### MIXED

Appearance	Clear / Lt. Amber	Black	Black
Weight per Gallon	8.8 lbs	8.5 lbs	8.75lbs
Volume Solid	100%	100%	100%
Viscosity 75 Deg F	4100 cps	28 cps	24,000 cps (putty)

### PHYSICAL PROPERTIES

Hardness, Shore A	85
Tensile Strength, psi	2100
Elongation,%	410
Tear Strength, Die C	260
Resilience,%	40
Abrasion Resistance, (Tabor Index) H-18 Wheel 1,000 Cycles	95 mg Loss

### SURFACE PREPARATION

Completely clean and dry all surfaces to be coated. Fiberglass, rubber, wood,galvanized,aluminum, stainless steel, brick and concrete are acceptable surfaces. All substrate should be prepared with proper adhesives. Metal surfaces should be sandblasted per SSPC – SP 5-63 “White Metal Blasting Cleaning”

- Concrete surfaces should be acid etched for immersion applications.
- A 4 mil surface profile is desirable.

If an adhesive is required use FORSCH ADHESIVE 1001.

## **URS 5685 cont**

### **PROCESSING PARAMETERS**

Apply with a brush, initial build for one coat is 50 mils. 150 mils maximum build for uncured coating.

### **MIXING INSTRUCTIONS**

- A. Stir Part B thoroughly and pour into Part A container
- B. Mix 1 ½ to 2 minutes in container using wood mixing stick (a rapid figure 8 stirring motion is best to ensure good mixing with least air entrapment.)
- C. Transfer mixed compounds to clean plastic or metal container and mix for 1 minute more.
- D. If mixing less than full contents, use mix ratio of 100.0 Part A to 19.75 Part B by weight. Accurate mixing is critical for the best performance of this product.

**POT LIFE:** 25 minutes at 75 Deg F.

**CURE TIME:** 80% Cure 24 hours @ 75 Deg F.  
100% Cure 48 hours @ 75 Deg F.

**LIMITATION:** Part A must be clear and fluid when used. Exposure to cool temperatures below zero Deg F. or to extend storage below 30 Deg F. may cause Part A to crystallize. This will not harm Part A, however, it must be warmed at 90 to 100 Deg F. until Completely melted. Cool to room temperature before using.

### **STORAGE**

Systems should be stored unopened in air tight containers at 60 – 90 degrees F. Partially emptied containers should be swept free of atmospheric moisture with dry nitrogen before sealing.

### **HANDLING PRECAUTIONS**

For complete and updated health and safety information, read the MATERIAL SAFETY DATA SHEETS. Do not handle or use until the MATERIAL SAFETY DATA SHEET has been read and understood.