

FORSCH POLYMER CORP.

URS 5685

TECHNICAL DATA BULLETIN

100% SOLIDS TROWELABLE URETHANE SYSTEM

REVISED 10/00

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	3850
Elongation, %	550
Tear Strength, Die C	395
Tear Strength, Split Tear	72
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.

This product is warranted to be of uniform quality within manufacturing tolerances. Since no control is exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. The obligation herein shall be limited to refunding the purchase price of that portion of the material proven to be defective.