



TECHNICAL DATA SHEET

AV-600 SURELIFT™ SERIES

LIFTING FOAM AND VOID FILL

DESCRIPTION

AV-600 Surelift Series is a dual component, water blown, all PMDI-based, pour-in-place or pump structural urethane foam system engineered for concrete lifting, and void filling even in moist soil conditions. The **AV-600** Surelift Series' low viscosity design (Part A and B combined) allows the material to be blended together using typical mix machines or hand mixer. **AV-600** Surelift Series is available as a fast or slow version with regards to reaction time. Slow is the speed of choice when the cavity to be filled is large. A slow reactivity will allow longer shot times.

APPLICATION

- Lifts concrete slabs
- Fills voids
- Sealing of underground infrastructures
- Stabilizing soils

FEATURES AND BENEFITS

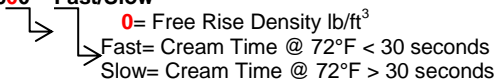
- Expands 700% – 2000% depending on the free rise density of the foam
- Good performance in wet environments
- Solvent-free system
- Low viscosity
- Increased compressive strength

HOW IT WORKS

AV-600 Surelift Series is a dual component resin. The use of a Graco E-Series reactor system with a GX-7 gun is recommended. **AV-600** Surelift Series should be mixed by pour machines designed to mix urethane chemicals.

NOMENCLATURE

AV-600 – Fast/Slow



PACKAGING

Product packaged by weight based on specific gravity.

- Tote Kit = Net Wt. 2,585 lbs. (A), 2,181 lbs. (B)
- Drum Kit = Net Wt. 517 lbs. (A), 436 lbs. (B)
- Pail Kit = Net Wt. 47 lbs. (A), 39.6 lbs. (B)

SHIPPING

- Motor Class 55
- Non-Hazardous
- Air freight available

CLEANING PRODUCTS

- **AV-208** Technical Grade Acetone™ (CAS# 67-64-1) – removes moisture from equipment
- **AV-284** Pump Wash™ (Proprietary Blend) – removes uncured resin from pump and hose
- **AV-222** Cleaner™ (Proprietary Blend) – removes cured resin from equipment

Product	Cream Time @72°F (sec)	Free Rise Density ASTM D1622 (lb/ft ³)	Free Rise Comp Strength ASTM D1621 (psi)	Confined Mold Density ASTM D1622 (lb/ft ³)	Confined Mold Comp. Strength ASTM D1621 (psi)
AV-640 Fast	20	4	54	5-5.5	~108
AV-640 Slow	60	4	54	5-5.5	~108
AV-660 Fast	20	6	115	7-8	~143
AV-660 Slow	60	6	115	7-8	~143
AV-680 Fast	20	8	>140	10-11	~250
AV-680 Slow	60	8	>140	10-11	~250

TYPICAL PHYSICAL PROPERTIES for AV-640

Appearance: Opaque black/brown liquid
 Restrained Core Density: 5.5 pcf
 Viscosity (Part A): 200 cP @ 72°F (22°C)
 Viscosity (Part B): 500-700 cP @ 72°F (22°C)
 Lbs./Gallon (Part A): 10.4 lbs. ± 3%
 Lbs./Gallon (Part B): 8.8 lbs. ± 3%
 Shelf Life: 12 months
 Compressive Strength: 108 psi
 Tensile Strength: 84 psi
 Closed Cell Content: > 92%
 Water Absorption, ASTM D2842: ≤ 0.09 lbs/sq ft
 Resistance to Solvents: Excellent
 Resistance to Mold and Mildew: Excellent
 Maximum Service Temperature: 150°F (65°C)
 Flash Point: >275°F (135°C)

*Laboratory Results

MIX PROCEDURE

	PART A	PART B
By Weight	100 parts	84 parts
By Volume	100 parts	100 parts

PERFORMANCE

Performance will be influenced by atmospheric conditions.

STORAGE

Store between 45°F – 95°F (7°C – 35°C) in a dry atmosphere. Avoid water and humidity. Keep spouts closed. Packaged under dry nitrogen to keep moisture out and extend shelf life. Cold chemicals can cause poor mixing, pump cavitation or process problems due to higher viscosity at lower temperatures

SAFETY

Use caution in removing bungs from the containers. Loosen the small bung first and let any built up gas purge before completely removing. Refer to the MSDS for complete safety precautions. The SDS is available by request or via download avantigrout.com.

NOTICE

The data, information and statements contained herein are believed to be reliable, but are not construed as a warranty or representation for which Avanti International assumes any legal responsibility. Since field conditions vary widely, users must undertake sufficient verification and testing to determine the suitability of any product or process mentioned in this or any other written material from Avanti for their own particular use. **NO WARRANTY OF SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE.** In no case shall Avanti International be liable for consequential, special, or indirect damages resulting from the use or handling of this product.