



**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**

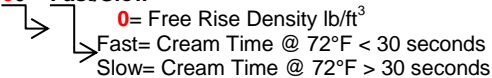
- Expands 700% – 2000% depending on the free rise density of the foam
- Good performance in wet environments
- Solvent-free system
- Low viscosity
- Increased compressive strength

**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 <sup>3</sup> )	Free Rise Comp Strength ASTM D1621 (psi)	Confined Mold Density ASTM D1622 (lb/ft <sup>3</sup> )	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: 6 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)

\*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](http://avantigrout.com).

**NOTICE**

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