

TECHNICAL DATA SHEET

AV-248-LV FLEXSEAL LV™

HYDROPHOBIC POLYURETHANE FOAM

DESCRIPTION

AV-248-LV Flexseal LV™ is the low viscosity version of the original AV-248 Flexseal™. Injected as a single component, catalyzed AV-248-LV is a moisture activated MDI-based polyurethane resin that withstands wet/dry cycles and forms a résilient, impermeable flexible foam. This high quality resin is designed to seal active and potential water leaks in various cracks and annular spaces where flexibility is needed but is susceptible to wet/dry cycles. Avanti's AV-**248-LV** is one of the most versatile products on the market.

APPLICATION

- Fine cracks above or below grade in humid or arid atmospheres
- Fills various voids and pipe penetrations
- Stops leaks in concrete structures
- Designed for tunnels, mines, dams, reservoirs, block walls, and structures that may shift

FEATURES AND BENEFITS

- Very low viscosity
- Expands 400% 600%
- No VOC
- Controllable reaction time by adjusting AV-249-LV
- Withstands wet/drv cvcles
- Unique hydrophobic that cures into a flexible, closed-cell foam

GROUTING TECHNIQUES

- Expanded Gasket Placement Technique (EGP)
- Variable Pressure Application Technique (V-PÁT) Crack Injection

HOW IT WORKS

AV-248-LV is a water-activated reaction that forms a resilient, flexible seal accomplished by three mechanisms: the resin seeks out water in the space and adheres to the surface, then begins to expand forming a tight compressive seal while the network of compressed grout material within all the cracks forms a mechanical lock.

CATALYSTS

AV-249-LV Flexseal Cat LV – catalyst, 32 oz. (0.95 L)

PACKAGING

Product packaged by weight based on specific gravity.

Drum Net Wt. 484 lbs. (220 kg)

Pail Net Wt. 44 lbs. (20 kg)

Gallon Net Wt. 8 lbs. (3.6 kg)

Dual Cartridge AV-248-LV - 750 ml AV-249-LV - 75 ml

SHIPPING

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

PROPERTIES*

AV-248-LV - UNCURED*

Appearance: Milky white to clear liquid Viscosity: 150-250 cP @ 77°F (25°C)

ASTM D-4889

Flash Point: 255.2°F (124°C)

1.03 @ 72°F (22°C) ± 3% Specific Gravity: 8.6 lb./gal. $(1,030 \text{kg/m}^3) \pm 3\%$ Density:

AV-248-LV - CURED *†

Milky white flexible foam Appearance:

Tensile 150 psi **ASTM D-3574**

Strength:

Elongation: 250% **ASTM D-3574** Linear **ASTM D-1042** <1%

Shrinkage

Toxicity: Non-toxic

†Cured properties vary depending on application and field

conditions.

AV-249-LV*

Appearance: Light yellow to white, clear liquid

Viscosity: 15 cP @ 72°F (22°C)

Flash Point: >200°F (>93°C)

0.894 @ 72°F (22°C) ±3% Specific Gravity:

7.4 lbs./gal \pm 3% 894 kg/m³ \pm 3% Density: *Laboratory Results

	Gel (Cure) Times for AV-248-LV Flexseal LV (Min:Sec)			
nre		Half Catalyst	Full Catalyst	Double Catalyst
emperatu	40°F / 4°C	9:29	5:44	3:55
	50°F / 10°C	7:42	5:08	3:10
	60°F / 15°C	6:52	3:59	2:42
_	70°F / 21°C	5:00	3:22	1:53

MIX PROCEDURE

Typically, one container of AV-249-LV is used per 5-gallon container of AV-248-LV. Depending on the desired reaction time, AV-249-LV may be doubled. Mix thoroughly, but slowly, to avoid creating bubbles in the solution. Perform the standard cup test with site water to determine the desired reaction time.



AV-248-LV Flexseal LV is tested and certified by WQA against NSF/ANSI 61 Drinking **Water System Components** For product use restrictions visit www.wqa.org



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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

STORAGE

Store between 45°F - 95°F (7°C - 35°C) in a dry atmosphere. Keep lid tightly closed when not in use. Packaged under dry nitrogen to keep moisture out and extend shelf life.

PERFORMANCE

Flush equipment with AV-208 before and after use to remove moisture and clean equipment. Performance will be influenced by site conditions. If site temperatures are low, heat the product to recommended operating temperatures of 60°F - 95°F (16°C - 35°C) and/or increase catalyst amount by 1% - 2%. Do not exceed more than 64 oz. (1.9 L) of AV-249-LV per 5-gallon container of AV-248-LV. Do not use open flame as a heat source. Excess amounts of AV-249-LV may adversely affect performance. Because catalyzed resin will react to moisture from the air, use product soon after mixing for best results.

SAFETY

Always use OSHA-approved personal protective equipment (PPE). Refer to the SDS for complete safety precautions. The SDS is available by request or via download at avantigrout.com.

NOTICE

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