AP FILL 700

WATER-ACTIVATED SEMI-RIGID
POLYURETHANE FOAM INJECTION RESIN

TECHNICAL DATA

Description

AP Fill 700 is a single component, water-activated, hydrophobic, low viscosity, closed cell polyurethane injection resin.

Uses

- Soil permeation grouting
- Cutting off high flow leaks
- Filling voids behind concrete structures
- Cutting off underground water flows
- Stabilizing soil
- Seawall repair

Advantages

- Very low viscosity
- Water impermeable
- Adjustable set time – as fast as 20 seconds
- Injected as a single component
- Phthalate free (more environmentally friendly)
- Certified by ALS Global to NSF/ANSI/CAN 61 (approved for contact with drinking water)

AP Fill 700 Properties Cured		
Tensile Strength	45 psi or 6,480 psf (310 kPa)	ASTM D-1623
Tensile Elongation	2.90%	ASTM D-1623
Compressive Strength (with fine sand)	2,050 psi or 295,200 psf (14,100 kPa)	ASTM C-39
Shrinkage	Negligible	ASTM D-1042/D-756
Pre-Activated Mix Viscosity	120 cP (120 mPa·s)	—
Alchatek Cat 106 Physical Properties - Liquid		
Viscosity at 77°F (25°C)	10 cP (10 mPa·s)	ASTM D-4878
Flash Point	>210°F (>99°C)	ASTM D-1310
Specific Gravity	0.97	ASTM D-3505
Alchatek Cat 107 Physical Properties - Liquid		
Viscosity at 77°F (25°C)	10 cP (10 mPa·s)	ASTM D-4878
Flash Point	>210°F (>99°C)	ASTM D-1310
Specific Gravity	0.95	ASTM D-3505

Alchatek Cat 106 (Not recommended to use below 2%)			
Quantity by Volume	**2%**	**5%**	**10%**
Initial Reaction	25 sec	15 sec	8 sec
Full Rise	1 min 50 sec	1 min 27 sec	30 sec

Alchatek Cat 107 (Not recommended to use below 5%)			
Quantity by Volume	**5%**	**7.50%**	**10%**
Initial Reaction	5 sec	5 sec	5 sec
Full Rise	30 sec	22 sec	16 sec

Storage and Shelf Life

Store between 50–80°F (10–26°C). Shelf life is 24 months in unopened containers stored within this temperature range.

Estimating Quantities

Consumption has to be assessed on site and is influenced by the amount of water leaking, thickness of the concrete.

Application and Safety Precautions

When applying Alchatek polyurethane systems, always wear appropriate personal protective equipment and avoid contact with eyes and skin. Review the Safety Data Sheet at Alchatek.com before use. Excessive foam build-up in confined spaces can result in high internal temperatures and expansion pressures. In large void fills, stage injections and allow cooling time between lifts.For step-by-step procedures and typical project setups, see the Deep Lock® Soil Stabilization AND Void Filling application guides. For safety and application guidance, contact the Alchatek Technical team.

Supplier Details

Alchatek
4508 Bibb Blvd
Tucker, GA 30084
T: (404) 618-0438

Emergency Phone Numbers

Call CHEMTREC
Day or Night
1-800-424-9300
+1 703-527-3887

Limited Warranty
Alchatek warrants this product to be free from manufacturer's defects and to meet all published properties on current Technical Data Sheet for a period of one year if used according to published instructions and within the shelf life. The user is responsible for determining suitability for intended use and assumes all risk. No other warranties expressed or implied shall apply including any warranty of merchantability or fitness for a particular purpose. Purchaser's sole remedy is limited to the purchase price or product replacement exclusive of cost of labor or other materials.

Latest Information
Before each use read latest Technical Data Sheets, Safety Data Sheets, and instructions available at Alchatek.com. Nothing contained in any Alchatek materials or verbal instruction relieves the user of the obligation to read and follow all usage instructions and warnings for each product contained in the latest Technical Data Sheets and Safety Data Sheets. All information given by Alchatek about Alchatek products and procedures is given in good faith based on our current experience level and knowledge when materials are properly stored, handled, and applied. Jobsite conditions always vary, and for this reason Alchatek assumes no liability for the provision of such information or instructions. Neither shall any legal relationship be created by the provision of such information.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. READ MATERIAL SAFETY DATA SHEET PRIOR TO EVERY USE.

Properties will vary depending on application conditions.