AP FILL 720

WATER-ACTIVATED SEMI-RIGID
POLYURETHANE FOAM INJECTION RESIN

TECHNICAL DATA

Description

AP Fill 720 is a single component, water-activated, hydrophobic, low viscosity, closed cell polyurethane injection resin.

Uses

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

Advantages

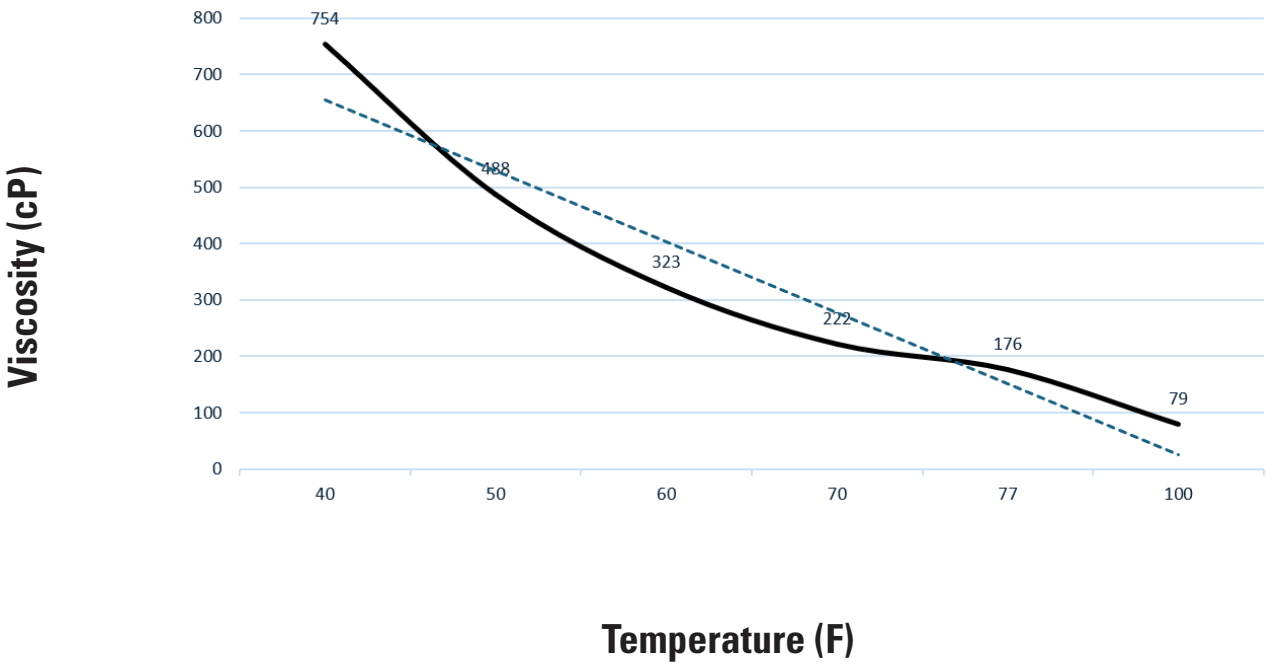
- Very low viscosity
- Water impermeable
- Adjustable set time – as fast as 22 seconds
- Injected as a single component
- Phthalate free (more environmentally friendly)
- Certified by ALS Global to NSF/ANSI/CAN 61 (approved for contact with drinking water)

AP Fill 720 Properties Cured		
Compressive Strength (with Fine Sand)	1,803 psi or 259,632 psf (12,400 kPa)	ASTM C-39
Tensile Strength	43 psi or 6,192 psf (296 kPa)	ASTM D-1623
Tensile Elongation	3.80%	ASTM D-1623
Shrinkage	Negligible	ASTM D-1042/D-756
AP Fill 720 - Uncured (Brown Liquid)		
Viscosity at 77°F (25°C)	215 cP (215 mPa·s)	ASTM D-4878
Density	69.9 lbs/ft³ (1.12 kg/dm³)	ASTM D-3505
Alchatek Gen Cat Accelerator (Yellow-Orange Liquid)		
Viscosity at 77°F (25°C)	75 cP (75 mPa·s)	ASTM D-4878
Flash Point	313°F (156°C)	ASTM D-1310
Density	65.5 lbs/ft³ (1.05 kg/dm³)	ASTM D-3505
Alchatek Gen Cat Fast Accelerator (Yellow-Orange Liquid)		
Viscosity at 77°F (25°C)	70 cP (70 mPa·s)	ASTM D-4878
Flash Point	313°F (156°C)	ASTM D-1310
Density	65.5 lbs/ft³ (1.05 kg/dm³)	ASTM D-3505

Alchatek Gen Cat	41°F (5°C)			59°F (15°C)			77°F (25°C)		
%	Start	End		Start	End		Start	End	
5	18 sec.	95 sec.	40X	18 sec.	78 sec.	40X	14 sec.	55 sec.	49X
8	15 sec.	60 sec.	42X	14 sec.	51 sec.	42X	10 sec.	43 sec.	49X
10	15 sec.	48 sec.	42X	11 sec.	41 sec.	42X	8 sec.	35 sec.	49X

Alchatek Gen Cat Fast	41°F (5°C)			59°F (15°C)			77°F (25°C)		
%	Start	End		Start	End		Start	End	
5	19 sec.	75 sec.	42X	14 sec.	57 sec.	45X	9 sec.	43 sec.	49X
8	15 sec.	40 sec.	42X	10 sec.	35 sec.	45X	7 sec.	30 sec.	49X
10	10 sec.	35 sec.	42X	8 sec.	28 sec.	45X	5 sec.	22 sec.	49X

Viscosity vs Temp - AP Fill 720



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 void size and location, water flow rate, desired foam expansion, degree of confinement, and soil conditions.

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
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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.