



Geolok™ is a two component, spray applied, rigid polyurethane foam system specifically designed for applications requiring a high volume of foam build-up with low heat generation without scorching or splitting. This generation of fully water-based ditch foam contains raw materials made from recycled PET plastic. **Common uses:** Geotechnical applications pipeline support, trench breakers, ditch work, breakers, pipe pillows, rock guards, erosion control, filling voids, mine shafts, sinkholes, underground storage tanks, etc.

PHYSICAL PROPERTIES			
ASTM D 1622	Density	2.4 ± 0.5 lb/ft³	38.5 ± 1 kg/m³
ASTM D 1621	Compressive Strength % @ Max Load	29 psi	200 kPa
ASTM D 2126	Dimensional Stability, 7 Days (% volume change of 4"x4"x4" specimen)		
	176°F (80°C), ambient R.H. 158°F (70°C), > 97 ± 3% R.H. -4°F (-20°C), ambient R.H.	-0.5% +0.3% -0.0%	
ASTM D 2842	Water Absorption (% volume, 96 hrs immersion)	1.38%	

LIQUID COMPONENT PROPERTIES*		
PROPERTY	A-PMDI ISOCYANATE	GEOLOK RESIN
Color	Brown	Yellow/Amber
Viscosity @ 77°F (25°C)	180 – 220 cps	410 – 510 cps
Specific Gravity	1.24	1.19 – 1.21
Shelf Life of unopened drum properly stored	12 months	6 months
Storage Temperature	50 – 100°F (10 – 38°C)	50 – 100°F (10 – 38°C)
Vapor Pressure @ 77 F (25 C)	< 0.0001 mmHg (MDI)	9.6 psi
Mixing Ratio (volume)	100	100

*See SDS for more information.

RECOMMENDED PROCESSING CONDITIONS*		
Initial Primary Heater Setpoint Temperature	115°F	49°C
Initial Hose Heat Setpoint Temperature	115°F	49°C
Initial Processing Setpoint Pressure	800 psi	5516 kPa
Substrate & Ambient Temperature	>59°F	>15°C

Geolok has a maximum thickness per pass of 4" with no wait time between passes; therefore the product can be continuously sprayed from side to side with consecutive 4" passes to achieve the final desired thickness. Geolok is not intended for use in buildings. Geolok should not be used when the continuous service temperature of the substrate or foam is below -76°F or above 176°F.

REACTIVITY PROFILE			
Cream Time 0 – 1 seconds	Gel Time 3 – 4 seconds	Tack Free Time 5 – 6 seconds	End of Rise 5 – 6 seconds

General Requirements: Equipment must be capable of delivering the proper ratio (1:1 by volume) of polymeric isocyanate (PMDI) and polyol blend at adequate temperatures and spray pressures. Substrate must also be free of moisture (dew or frost), grease, oil, solvents and other materials that would adversely affect adhesion of the polyurethane foam.

Disclaimer: The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The foam product is combustible and must be protected in accordance with applicable codes. Protect from direct flame and spark contact, around hot work for example. The exclusive remedy for all proven claims is replacement of our materials.