



TerraThane 24-038 Geotechnical Foam System

Technical Data Sheet

NCFI 24-038 is a plural component, co-blown, all PMDI-based, nominal 8 pcf density, hydro-insensitive polyurethane foam system designed for concrete slab raising, under-slab void fill and cavity fill applications where a high degree of foam strength is demanded. NCFI 24-038 is formulated to be machine processed using applicable plural component polyurethane processing equipment.

Typical Properties of Components

Component	B-24-038	A2-000
Appearance	clear black liquid	clear brown liquid
Brookfield Viscosity @ 20 rpm	750 cps at 72°F	200 cps at 72°F
Specific Gravity	1.10	1.24
Storage Temperature	60°F - 90°F	60°F- 90°F

Mix Ratio

By weight.....100 parts poly : 113 parts iso
 By volume..... 100 parts poly : 100 parts iso

Typical Properties of Mixing

	Hand mix at 72°F	Equipment mix at 120°F
Cream Time	28 seconds	8 seconds
Rise Time	90 seconds	20 seconds
Free Rise Core Density	8 pcf	7.5 pcf

Process Parameters

Iso Temperature	110°F to 125°F
Poly Temperature	110°F to 125°F
Equipment Dynamic Pressure	800 – 1000 psi

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Typical Foam Physical Properties

In-Place Density (ASTM D-1622)	8 pcf	8.5 pcf
Compressive Strength (ASTM D-1621)	175 psi	200 psi
Compressive Modulus (ASTM D-1621)	3200 psi	3500 psi
Tensile Strength (ASTM D-1623)	165 psi	185 psi
Tensile Modulus (ASTM D-1623)	2700 psi	3100 psi
Resistance to Mold and Mildew	Excellent	
Resistance to Solvents	Excellent	
Closed cell content (ASTM D-6226)	> 94%	
Maximum service temperature	180°F	

Storage and Handling

Store the poly from 60°F to 90°F. Avoid moisture contamination during storage, handling, and processing. For both components, pad containers and day tanks with either nitrogen or dry air (desiccant cartridge or air dryer @ -40°F dew point). For optimum shelf life, the recommended storage temperature for iso is 50°F to 90°F. Shelf life is 6 months for factory sealed containers.

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