



**NCFI Polyurethanes**

Div. of Barnhardt Manufacturing Co.

PO Box 1528 • Mount Airy, NC 27030

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## 21-075 Rigid Pour Foam System

### Technical Data Sheet

NCFI 21-075 is a two component, HFO blown, low GWP, all PMDI based, pour-in-place urethane rigid foam system. It is designed for void filling applications which require a high degree of flow.

### Typical Properties of Components

Component	B-21-075	A2-000
Appearance	Light amber liquid	Brown liquid
Brookfield Viscosity @ 20 rpm	450 cps at 72°F	200 cps at 72°F
Specific Gravity	1.13	1.24
Storage Temperature	40°F - 90°F	40°F- 90°F

### Mix Ratio

By weight..... 100 parts poly : 112 parts iso  
 By volume..... 100 parts poly : 100 parts iso

### Typical Properties of Mixed System at 72°F

	Regular	Fast
Cream Time	65 seconds	35 seconds
Gel Time	150 seconds	85 seconds
Tack Free Time	180 seconds	95 seconds
Rise Time	250 seconds	135 seconds
Free Rise Core Density	6 pcf	

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## Typical Physical Properties

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Free Rise Density	6 pcf
Compressive Strength (Parallel) / Modulus	133 psi / 3639 psi
Compressive Strength (Perpendicular) / Modulus	94 psi / 2349 psi
Shear Strength / Modulus	201 psi / 1707 psi
Tensile Strength / Modulus	112 psi / 224 psi
Closed Cell Content	>90%
Water Absorption	0.00 lb/ft <sup>2</sup>
Resistance to Solvents	Excellent
Resistance to Mold & Mildew	Excellent
Maximum Service Temperature	200°F

\*The above values are average values obtained from laboratory experiments and should serve only as guide lines.

## Other Properties

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- Meets Title 46 CFR 179.240 for flotation foam
- Meets USCG Title 33, Chapter 1, Part 183

## Storage and Handling

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Store the poly from 65°F to 85°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 64°F to 86°F. **Do not expose iso to lower temperatures – freezing may occur.** Shelf life is 6 months for factory sealed containers.



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