



**NCFI Polyurethanes**

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## 24-024 Rigid Foam System

### Technical Data Sheet

NCFI 24-024 is a two-component, HFC-245fa blown, all PMDI-based, pour-in -place urethane foam system designed for concrete jacking and cavity filling in wet environments. NCFI 24-024 has low component viscosities making the system suitable for mechanical mix machines, high pressure (over 600 psi) impingement mixing machines or hand mixing.

### Typical Properties of Components

Component	B-24-024	A2-000
Appearance	clear amber liquid	clear brown liquid
Brookfield Viscosity @ 20 rpm	600 cps at 72°F	200 cps at 72°F
Specific Gravity	1.07	1.24
Weight per Gallon, lbs	8.8	10.3
Storage Temperature	60°F - 90°F	60°F - 90°F

### Mix Ratio

By weight.....100 parts poly : 117 parts iso

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

### Typical Properties of Machine-Mixed System at 125°F

	REGULAR	FAST
Cream Time	6 seconds	5 seconds
Tack Free Time	20 seconds	10 seconds
Free Rise Core Density	2.0 pcf	2.0 pcf

### Typical Processing Parameters\*

Iso Temperature	110°F to 140°F
Poly Temperature	110°F to 140°F
Mixing Pressures	1000 psi static, 800 psi dynamic

\* Using standard spray equipment with 1/1 by volume proportioning pumps capable of maintaining 800-1200 psi dynamic pressures. The Graco Reactor E20-series or better with a GX-7 gun is preferred equipment. NCFI 24-024 **B** is connected to the **resin/polyol** pump with the NCFI **A** being connected to the **isocyanate** pump.

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### Typical Physical Properties:

Density, pcf	ASTM D1622	3.1
Compressive Strength, psi	ASTM D1621	50
Tensile Strength, psi	ASTM D1623	58
Closed Cell Content, %	NCFI TM 300	> 94
Water Absorption, lbs./ft <sup>2</sup>	ASTM D2842	≤ 0.04
Resistance to Solvents		Excellent
Resistance to Mold and Mildew		Excellent
Maximum Service Temperature		200°F

### Storage and Handling

Store the poly from 50°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. **Do not expose iso to lower temperatures – freezing may occur.** Store components at 70°F to 90°F for several days prior to use to minimize components being too viscous at time to take to field. Shelf life is 6 months for factory sealed containers.

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