

NCFI Polyurethanes
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# 21-006 Rigid Pour Foam System

### **Technical Data Sheet**

NCFI 21-006 is a two component, HFC-245fa blown, all PMDI based, nominal 2.1 pcf density, pour-in -place urethane foam system. It is designed for void filling applications which require a high degree of flow. NCFI 21-006 component viscosities make the system suitable for either mechanical mix machines, impingement high pressure (over 600 psi) mixing machines or hand mixing.

# **Typical Properties of Components**

Component	R-21-006	A-21-006
Appearance	brown liquid	brown liquid
Brookfield Viscosity @ 20 rpm	625 cps at 72°F	200 cps at 72℉
Specific Gravity	1.13	1.24
Storage Temperature	40 <b>℉</b> - 90 <b>℉</b>	40 <b>℉</b> - 90 <b>℉</b>

#### Mix Ratio

## Typical Properties of Mixed System at 72F

	Regular Speed	Fast Speed
Cream Time	45 seconds	25 seconds
Gel Time	235 seconds	115 seconds
Tack Free Time	380 seconds	150 seconds
Rise Time	400 seconds	175 seconds
Free Rise Core Density	2.1 pcf	2.1 pcf

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### **Typical Physical Properties**

Overall Molded Density	3.3 pcf
Compressive Strength	38 psi
Initial k-factor	0.14
Moisture Vapor Transmission	2-4 perm inch
Closed Cell Content	> 94%
Water Absorption	≤ 0.06 lb/ft <sup>2</sup>
Resistance to Solvents	Excellent
Resistance to Mold & Mildew	Excellent
Maximum Service Temperature	200°F

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

#### **Other Properties**

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

# **Storage and Handling**

Store the poly from 65°F to 85°F. Avoid moisture c ontamination 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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