

NCFI POUR SYSTEM 26-020

DESCRIPTION:

NCFI 26-020 is a two component, HFC-245fa co-blown, all PMDI based polyurethane pour foam system designed for void filling in thick cross-sections. The product is formulated for low exotherm and low foam pressure. NCFI 26-020 is dispensed using 1/1 by volume ratio equipment.

DISTINGUISHING CHARACTERISTICS:

- Good Dimensional Stability
- Good Interlayer Adhesion
- Excellent Flow Characteristics
- High Strength Properties
- Low Exotherm Temperature

TYPICAL RESIN PROPERTIES:

	<u>26-020 R</u>	<u>26-020 A</u>
Viscosity	350 cps	200 cps
Lbs./Gallon	9.2 lbs.	10.2 lbs.
Appearance	transparent, amber liquid	transparent, brown liquid
Shelf Life	6 months	6 months

MIX RATIO:

	<u>26-020 R</u>	<u>26-020 A</u>
By Volume	100 parts	100 parts

TYPICAL REACTION PROPERTIES:

	<u>Hand-mix</u> @ 72°F	<u>Machine mix</u> @ 120°F
Cream time (sec)	25	10
Gel Time (sec)	500	250
Tack Free (sec)	1200	600
Rise Time (sec)	1500	800
Density (FRC)	2 pcf	2 pcf

TYPICAL PHYSICAL PROPERTIES:

Unrestrained Core Density, ASTM D1622	2.0 pcf
Compressive Strength, parallel Perpendicular ASTM D1621	25 psi 20 psi
Tensile Strength, ASTM D1623	34 psi
Closed Cell Content	>94%
Maximum Service Temperature	200°F

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

NCFI 26-020 APPLICATION INFORMATION

EQUIPMENT AND COMPONENT RATIOS:

NCFI 26-020 should be poured using standard spray equipment with 1/1 by volume proportioning pumps capable of maintaining 800-1200 psi dynamic pressure. The Graco E-30 with a Fusion gun using a pour module is preferred. Preheater temperatures should be set at a minimum of 110°F. 120°F is the optimum hose heat temperature. NCFI 26-020 **R** is connected to the **resin/polyol** pumps with NCFI 26-020 **A** being connected to the **isocyanate** pumps.

STORAGE AND USE OF CHEMICALS:

Keep temperature of chemicals at 70°F for several days before use. Cold chemicals can cause poor mixing, pump cavitation or other process problems due to higher viscosity at lower temperatures. Storage temperature should not exceed 100°F. Do not store in direct sunlight. Keep drums tightly closed when not in use and under nitrogen pressure of 2 - 3 psi after they have been opened.

SAFE HANDLING OF LIQUID COMPONENTS:

Use caution in removing bungs from the container. Loosen the small bung first and let any built up gas escape before completely removing. Avoid prolonged breathing of vapors. In case of chemical contact with eyes, flush with water for at least 15 minutes and get medical attention. For further information refer to "MDI-Based Polyurethane Foam Systems: Guidelines for Safe Handling and Disposal" publication AX-119

published by the Center for the Polyurethanes Industry 1300 Wilson Blvd, Suite 800, Arlington, VA 22209 and can be found on the web at www.polyurethane.americanchemistry.com.

Caution:

Polyurethane products manufactured or produced from this liquid system may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend on a broad range of factors which are controlled and influenced by the manufacturing and production process, by the mode of application or installation and by the function and usage of the particular product. ***Any flammability rating contained in this literature is not intended to reflect hazards presented by this or any other material under actual fire conditions. These ratings are used solely to measure and describe the product's response to heat and flame under controlled laboratory conditions.*** Each person, firm or corporation engaged in the manufacture, production, application, installation or use of any polyurethane product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage, and utilize all appropriate precautionary and safety measures

The information on our data sheets is to assist customers in determining whether our products are suitable for their applications. The customers must satisfy themselves as to the suitability for specific cases. NCFI Polyurethanes warrants only that the material shall meet its specifications; this warranty is in lieu of all other written or unwritten, expressed or implied warranties and NCFI Polyurethanes expressly disclaims any warranty of merchantability, fitness for a particular purpose, or freedom from patent infringement. Accordingly, buyer assumes all risks whatsoever as to the use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence or other claim shall be limited to the purchase price of the material. Failure to adhere strictly to any recommended procedures shall relieve NCFI Polyurethanes of all liability with respect to the material or the use thereof.

Origination Date 05/2013
Update #1 07/2013