

NCFI ELASTOMER SYSTEM
24-077132

DESCRIPTION:

NCFI 24-077132 is a two-component, polyether, all PMDI based polyurethane elastomer. NCFI 24-077132 is a hydrophobic product designed for rock grout and soil stabilization when moisture is present.

DISTINGUISHING CHARACTERISTICS:

- Excellent Wet Out
- Low Component Viscosity
- Resistance to Wet Conditions

TYPICAL RESIN PROPERTIES:

	<u>24-077132 R</u>	<u>24-077132 A</u>
Viscosity	340 cps	200 cps
Sp. Gr.	1.07	1.24
Appearance	transparent amber liquid	transparent, brown liquid
Shelf Life	6 months	6 months

MIX RATIO:

	<u>24-077132 R</u>	<u>24-077132 A</u>
By Weight	100 parts	115 parts
By Volume	100 parts	100 parts

TYPICAL REACTION PROPERTIES:

Hand Mix @ 72°F	
Gel Time	45 seconds
Shore D Hardness	75 – 80
Compressive Strength, psi	>10,000
Tensile Strength, psi	8138
Elongation, %	4.2
Shear Strength, psi	Exceeds adhesive used to glue samples for test
Water Absorption, % ASTM D 570	0.205%

The above values are average values obtained from laboratory experiments and should serve only as guidelines.

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.

EQUIPMENT AND COMPONENT RATIOS:

NCFI 24-077132 should be processed through a plural component proportioner with pump volume ratio of 1:1. Pressure recommended for best results is minimum 1000 psi (dynamic). Set preheater temperatures to 130° - 140° F to lower viscosity and aid in mixing . NCFI 24-077132 **R** is connected to the **resin/polyol** pumps with NCFI 24-077132 **A** being connected to the **isocyanate** pumps. A recommended unit is the Graco EXP or equivalent. Recommended gun is the Graco Fusion AP.

Gun: Graco Fusion AP

Important Note:

Please read NCFI Applicator Bulletin on "Overspray Management for Optimum Adhesion for NCFI Elastomeric Coatings".

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 publication AX-119 "MDI-Based Polyurethane Foam Systems: Guidelines for Safe Handling and Disposal" published by The Center for the Polyurethanes Industry, 1300 Wilson Blvd, Suite 800, Arlington, VA 22209.

STORAGE AND USE OF CHEMICALS:

Keep temperature of chemicals at 80°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. Absolutely no thinners should be added to this 100% solids system. Viscosity can be reduced by an increase in temperature. The 'A' component is sensitive to exposure to moisture. Keep drums tightly closed when not in use and under nitrogen pressure of 2 - 3 psi after they have been opened.

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.