



NCFI Polyurethanes
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Technical Data Sheet

05/08

**NCFI LOW DENSITY
 SPRAY SYSTEM 15-015**

DESCRIPTION:

NCFI 15-015 is a two component, water-blown, all PMDI based low density void-fill foam.

DISTINGUISHING CHARACTERISTICS:

- All Water Blown
- Good Adhesion to Substrates
- Low Component Viscosity
- Wide Processing Parameter Window
- Passes UL-94 HF-1

TYPICAL RESIN PROPERTIES:

	<u>15-015 R</u>	<u>15-015 A</u>
Viscosity	200 cps	200 cps
Lbs./Gallon	8.83 lbs.	10.3 lbs.
Appearance	opaque, straw colored liquid	transparent, brown liquid

SHELF LIFE: 6 months 6 months

MIX RATIO:

	<u>15-015 R</u>	<u>15-015 A</u>
By Weight	100 parts	117 parts
By Volume	100 parts	100 parts

TYPICAL REACTION PROPERTIES:

Hand Mix 217 grams @ 50°F

Cream Time	8 seconds
Tack Free	15 seconds
Rise Time	22 seconds
Density (FRC)	0.50 pcf

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.

NCFI 15-015 APPLICATION INFORMATION

EQUIPMENT AND COMPONENT RATIOS:

It is preferred that this system be processed with Gusmer or Graco Polyurethane Spray Equipment.

NCFI 15-015R is connected to the resin pumps with NCFI 15-015A being connected to the isocyanate pumps. The proportioning pump ratio is 1 to 1. Dispensing temperature should be set at 140°F for automatically controlled machinery to give a good pattern. GX 7 gun should be set up with a 3160-16-125 module and a 16282-70-A PCD. Gap gun should be set up with a 36160-02 mixing chamber. For additional assistance contact NCFI.

STORAGE AND USE OF CHEMICALS:

Store above 35°F, keep temperature of chemicals above 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. The shelf life of NCFI 15-015 is six months.

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.

VAPOR BARRIER PROTECTION:

In most instances a vapor barrier/retarder must be used with the application of NCFI 15-015. Please consult the local building codes for information or contact NCFI for recommendations

SPECIAL PRE-MIXING INSTRUCTIONS FOR 15-015:

R-15-015 is an R-side component which tends to separate after several hours. Prior to use, stir contents of the resin drum using air or electric driven bung mount agitator with collapsible blades (or equal) for a minimum of 20 minutes. Mixer should be installed in specially marked, center bung opening on drum and **mixing should be maintained throughout use of the drum.**

SPECIAL HANDLING NOTICE:

Care should be taken to avoid the introduction of any other chemical system (such as closed cell spray foams) into the R side drum of 15-015. We strongly recommend, at a minimum, the use of a dedicated transfer pump for this material to avoid the possibility of cross contamination. User should expect that there will be a degree of waste in spraying out the changeover between closed-cell to open-cell foams. Under no circumstances should the user bleed out spray lines of these incompatible foams back into the drum.

PREPARATION OF SURFACE TO BE SPRAYED:

All surfaces to be sprayed should be clean, dry, and free of dew or frost. All metal to which foam is to be applied must be free of oil, grease, etc.

OPTIMUM ADHESION TEMPERATURE OF SURFACE TO BE SPRAYED:

On general work where the surface to be sprayed will remain at ambient temperature or cooler, the surface should be between 50°F and 120°F. In this range the warmer the surface the better the adhesion. In some cases the surface may require a primer. When surfaces are cooler, the spray applicator should spray a test area approximately 20 square feet and check for proper adhesion and cell structure. If both are satisfactory, then the spray application may continue.

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.