

TECHNICAL BULLETIN

POLYURETHANE RESIN

UTC-7040-0.5 NON CFC OR HCFC CONTAINING SPRAY FOAM SYSTEM

DESCRIPTION:

Sprayable resin system developed for specific insulating applications where ½ pound spray foam is desired. Designed especially for applications with two-component spray equipment capable of handling material with short reaction time.

FEATURES:

- Environmentally friendly water blown technology
- Meets Class I requirements
- Fine uniform cell structure with good strength and dimensional stability

APPLICATIONS:

Thermal insulation for building construction, roofing, siding, floors, wall cavities...new or retrofit.

WARNING:

Polyurethane products manufactured or produced from these chemicals 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 upon a broad range of factors which are controlled or influenced by the manufacturer, applicator, or production process by the mode of application or installation and usage of the particular end product.

Each person, firm, or corporation engaged in the manufacture, production, application, installation, or use of any polyurethane materials 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 as outlined in local, state, and federal regulations governing the manufacture of products in the construction and/or renovation of commercial or residential structures.

Notice:

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness. Nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental, or consequential damages.



TYPICAL PHYSICAL CHARACTERISTICS OF THE FOAM

PROPERTY*	Value	ASTM
Density (core PCF)	0.5	D1622
Thermal Resistance (Initial) at 75°F	3.7	C518
Open cell content %	97	D2856
Water Absorption (lb/ft ²)	0.12	D2842
Dimensional Stability: 100°C, 28 Days, Vol %	-1	D2126
Dimensional Stability: 70°C/97% RH, 28 Days, Vol %	-0.4	D2126
Dimensional Stability: 70°C/Ambient RH, 28 Days, Vol %	-0.5	D2126

** The above properties were obtained on foam samples produced with a Gusmer/Graco H 40 Spray machine using an air-purged Gap Pro Spray gun. The foam was sprayed with a thickness of approximately 6 inches, in two passes of 3". Please see recommended processing conditions for additional information.*

LIQUID COMPONENT PROPERTIES

PROPERTY	PREPOLYMER	RESIN
Color	Dark Brown	Dark Amber/Dark Brown
Specific Gravity	1.23	1.1
Viscosity-Brookfield	200 cps	175 cps
Mixing Ratio by Volume	100	100

FIRE HAZARD* CLASSIFICATION (ASTM-E84) (ANSI 2.5) (NFPA 255) (UL-723)

FOAM THICKNESS	FLAME SPREAD	SMOKE DEVELOPED
6 inches	25	450

** This numerical flame spread rating and all other test data are not intended to reflect hazards presented by this or any other material under actual fire conditions. All plastic insulation must be separated from the interior building by an approved thermal barrier of ½" Gypsum wallboard or equivalent thermal barrier material.*



RECOMMENDED PROCESSING CONDITIONS:

Preheater Temperature	120A -125B °F
Hose Temperature	125 °F
Pressure	1500 PSI
A/B Volumetric Ratio	100:100 V
Cream Time*	1-2 seconds
Tack Free Time*	4-10 seconds
# of passes, thickness per pass, inches	2-3 inches

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HANDLING PRECAUTIONS:

UTC-7040 A Component contains a reactive isocyanate of the low volatility, minimal toxicity type but is nevertheless classified as a toxic material. Avoid contact with skin, eyes, or clothing. Wear suitable protective clothing. Avoid breathing vapors. Foaming operations should be performed in a well ventilated area. Forced ventilation is recommended in confined areas to help keep vapors away from the workers. The use of a respirator is imperative in spraying operations. In the case of contact with eyes, wash with plenty of water and get immediate medical attention. Wash skin or clothing immediately with alcohol then with plenty of soap and water.

UTC-7040 B Component contains a volatile catalyst (Tertiary Amine) which requires proper protection of the eyes and skin. Adequate ventilation is recommended.

REFER TO MSDS SHEETS FOR SAFETY AND HANDLING PROCEDURES

STORAGE INFORMATION:

UTC-7040 A Component should be protected from moisture contamination. For intermittent uses, the container or drum should be fitted with a dry air breather (9" pipe nipple filled with anhydrous calcium sulfate stopped on ends with cotton plugs and fitted into the vent bung). A storage temperature of 50-80° F must be maintained.

UTC-7040 B Component must be stored at a temperature range of 60-100°F. Keep the container tightly closed. Keep container in a dry, well ventilated area protected from freezing, rain, direct sunlight and excess heat.

Both materials, when properly stored, are stable for at least three months.